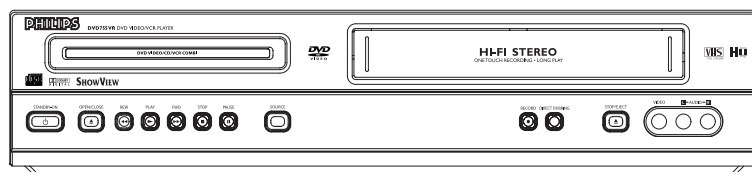


Service Service Service

DVD755VR /00
DVD755VR /02
DVD755VR /05
DVD755VR /14



Service Manual

CLASS 1
LASER PRODUCT



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SECTION 4 MECHANISM

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PHILIPS

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SECTION 1

SUMMARY

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

CAUTION : DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY. NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USER.

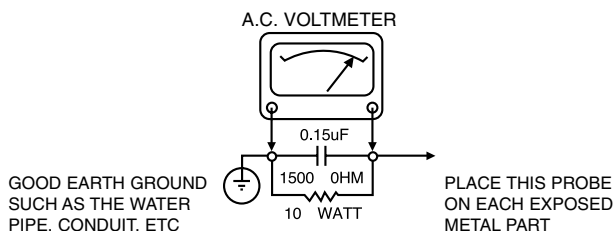
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

SAFETY CHECKS


AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED, A CHECK SHOULD BE MADE OF THE FOLLOWING.


SUBJECT : FIRE & SHOCK HAZARD

1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS. FOR FRAYED LEADS, DAMAGED INSULATION (INCLUDING A.C. CORD), AND REPLACE IF NECESSARY FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
5. NO LEAD OR COMPONENT SHOULD TOUCH A RECEIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTORS, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES, DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIRCUIT MODIFICATIONS.
7. AFTER RE-ASSEMBLY OF THE SET ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET, (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS, HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST USE AN A.C. VOLT-METER, HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER; CONNECT A 1500 OHM 10 WATT RESISTOR, PARALLELED BY A .15 MFD. 150.V A.C TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER PIPE, CONDUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLUG AND REPEAT A.C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED 75 VOLTS R.M.S. THIS CORRESPONDS TO 0.5 MILLIAMPS A.C. ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.



SUBJECT: GRAPHIC SYMBOLS

 THE LIGHTNING FLASH WITH APPOWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.

 THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SUBJECT : X-RADIATION

1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT T.V. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERATION AT HIGHER VOLTAGES MAY CAUSE A FAILURE OF THE PICTURE TUBE OR HIGH VOLTAGE SUPPLY AND, UNDER CERTAIN CIRCUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIRABLE LEVELS.
2. ONLY FACTORY SPECIFIED C.R.T. ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS X-RAY SHIELD IN COLOR SETS, ALWAYS RE-INSTALL THEM.
3. IT IS ESSENTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRATION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD, SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
4. WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED, THE BRIGHTNESS SHOULD BE RUN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE WITH A METER TO BE CERTAIN THAT THE HIGH VOLTAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY, WE SUGGEST THAT YOU AND YOUR SERVICE ORGANIZATION REVIEW TEST PROCEDURES SO THAT VOLTAGE REGULATION IS ALWAYS CHECKED AS A STANDARD SERVICING PROCEDURE. AND THAT THE HIGH VOLTAGE READING BE RECORDED ON EACH CUSTOMER'S INVOICE.
5. WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IS NECESSARY TO LOCATE THE CAUSE OF EXCESSIVE VOLTAGE.
6. REFER TO HV. B+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED).

SUBJECT: IMPLOSION

1. ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTEGRAL IMPLOSION PROTECTION SYSTEM, BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION, AVOID SCRATCHING THE TUBE. IF SCRATCHED REPLACE IT.
2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

SUBJECT : TIPS ON PROPER INSTALLATION

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBY-HOLE OR CLOSELY FITTING SHELF SPACE. OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID PALCEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
4. WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMERCIAL MOUNTING KIT. MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS) TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM, BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PARTS OR WIRING. PERFORM LEAKAGE TEST ON CUSTOMIZED INSTALLATIONS.
5. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED.
6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE WITH THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERALLY APPROVED FOR USE WITH T.V.'S OF THE SAME OR LARGER SCREEN SIZE.
8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS, EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

SERVICING PRECAUTIONS

CAUTION : Before servicing the VCR+DVD covered by this service data and its supplements and addends, read and follow the **SAFETY PRECAUTIONS**. **NOTE :** if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions.

Remembers Safety First:

General Servicing Precautions

1. Always unplug the VCR+DVD AC power cord from the AC power source before:
 - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
 - (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
 - (3) Connecting a test substitute in parallel with an electrolytic capacitor.

Caution : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Do not spray chemicals on or near this VCR+DVD or any of its assemblies.
3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
4. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
5. Do not apply AC power to this VCR+DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.

Note 1 : Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified a "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

SERVICE INFORMATION FOR EEPROM IC SETTING

EEPROM option code No. setting

NAME	HEX	BINARY
OPT1	00	00000000
OPT2	00	00000000
OPT3	00	00000000
OPT4	00	00000000
OPT5	00	00000000
OPT6	00	00000000

WR : OK I : EXIT MOVE : ◀ ▶
EDIT : ▲ ▼

MASKROM : R00
EEPROM : R00 LG CODE

MODEL	NAME	HEX	BINARY
DVD755VR/00	OPT1	7C	00000000
	OPT2	63	00000000
	OPT3	89	00000000
	OPT4	F1	00000000
	OPT5	31	00000000
	OPT6	48	00000000
DVD755VR/02	OPT1	7C	00000000
	OPT2	63	00000000
	OPT3	09	00000000
	OPT4	F0	00000000
	OPT5	62	00000000
	OPT6	40	00000000
DVD755VR/05	OPT1	3C	00000000
	OPT2	63	00000000
	OPT3	89	00000000
	OPT4	F1	00000000
	OPT5	31	00000000
	OPT6	48	00000000
DVD755VR/14	OPT1	3C	00000000
	OPT2	6A	00000000
	OPT3	89	00000000
	OPT4	F7	00000000
	OPT5	00	00000000
	OPT6	50	00000000

WR : OK I : EXIT MOVE : ◀ ▶
EDIT : ▲ ▼

EEPROM option code No. setting procedure

1. DETECT NEW EEPROM (OPTION EDIT SCREEN)

- Eeprom EDIT screen automatically appears if replacing Eeprom.
- Setup option data using the cursor Up/Down key of a remote control.
(Setup upon BOM depending on OPT1~OPT6 model)
- Since an initial remote control is set to LG for LG model, appropriately set option data using the cursor Up/Down key.
- For PHILIPS model, change a remocon key by using following JIG key.

PHILIPS MODEL : FRONT FF + FRONT REC KEY(LG/PHILIPS CODE)

2. EEPROM WRITED COMPLETE SCREEN

- Writes data on EEPROM by using REMOCON "OK".
- If completing the option data screen with a menu key, Powering Off is automatically done and the option edit screen is arranged.

3. PG ADJUST

- 1) Payback the SP standard tape
- 2) Press the "1" key on the Remote controller and the "PLAY" key on the Front Panel at the same time, then it goes into Tracking initial mode.
- 3) Repeat the above step(No.2), then it finishes the PG adjusting automatically.
- 4) Stop the playback, then it goes out to PG adjusting mode after mony the PG data.

4. EEPROM INITIAL

- SETUP is displayed in the field if pressing the FRONT REC KEY with the remocon number "CLEAR" key pressed in the status of no tape.
- AUTO SEARCH is done since the initial screen of ACMS is serviced if powering On.
- Check basic operation (PLAY/RECORD...)

SPECIFICATIONS

DVD PART

Power supply	AC 220~230V, 50Hz
Power consumption	23W
Mass	5.4kg
External dimensions	430 x 97.5 x 360 (W x H x D)
Signal system	PAL 625/50, NTSC 525/60
Laser	Semiconductor laser, wavelength 650nm
Frequency range (digital audio)	4 Hz to 20 kHz
Signal-to-noise ratio (digital audio)	More than 100 dB (EIAJ)
Audio dynamic range (digital audio)	More than 95 dB (EIAJ)
Harmonic distortion(digital audio)	0.008%
Wow and flutter	Below measurable level (less than +0.001%(W.PEAK)) (EIAJ)
Operations	Temperature : 5°C(41°F) to 35°C(95°F), Operation status : Horizontal

OUTPUTS

Video outputs	1.0V(p-p), 75Ω, negative sync., RCA jack x 1/SCART(TO TV)
S video outputs	(Y)1.0V(p-p), 75Ω, negative sync.,Mini DIN 4-pin x 1 (C)0.3V(p-p), 75Ω
Component video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω
Audio output(digital audio)	0.5V(p-p), 75Ω, RCA jack X 1/SCART(TO TV)
Audio output(optical audio)	Optical connector x 1
Audio output(analog audio)	2.0Vrms (1kHz, 0dB), 330Ω, RCA jack (L, R) x 1/ SCART(TO TV)

VHS PART

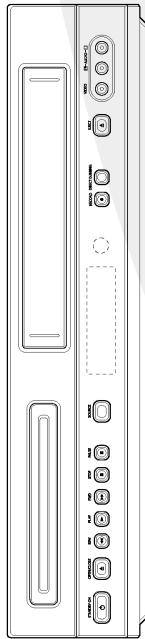
Video Head System	Double azimuth 4 heads, helical scanning
Tape format	Tape width 12.7 mm (0.5 inch)
Timer	24 hours display type

*Designs and specifications are subject to change without notice.

*Weight and dimensions shown are approximate.

DVD-Video Player / Video Cassette Recorder Owner's Manual

DVD/VR/00
755VR/00



Read this manual first!

Congratulations on purchasing this Philips product. We've included everything you need to get started. If you have any problems, Philips Representatives can help you get the most from your new product by explaining:

- Hookups,
 - First Time Setup, and
 - Feature Operation.
- Do not attempt to return this product to the store.

For fast help, call us first!
1-800-531-0039

Thank you for making Philips a part of your home!

Let's make things better.



PHILIPS

Safety Precautions



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

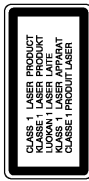


The exclamation mark within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.



CAUTION:

This Digital Video Disc Player employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference, should the unit require maintenance, contact an authorized service location-see service procedure.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION: The apparatus shall not be exposed to water, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

CE This product is manufactured to comply with the radio interference requirements of EEG DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.

Directions for Use

Notes on copyrights:

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission.

This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

SERIAL NUMBER: The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. _____
Serial No. _____

Features:

- Complete versatility to play DVD, VCDs, audio CDs or VHS Tapes.
- Watch a DVD while recording a TV show to the VCR.
- Remote controls DVD and VCR decks.
- Records from DVD to VHS (unless DVD is copy protected with Macrovision).
- Hi-Fi Stereo VCR.

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About the symbols for instructions

- Indicates hazards likely to cause harm to the unit itself or other material damage.
- Indicates special operating features of this unit.
- Indicates tips and hints for making the task easier.

Before Use

Playable Discs

	DVD (8 cm / 12 cm disc)
	Video CD (VCD) (8 cm / 12 cm disc)
	Audio CD (8 cm / 12 cm disc)

In addition, this unit can play a DVD-R, DVD-RW, Kodak PICTURE CD, SVCD, and CD-R or CD-RW that contains audio titles, MP3 or JPEG files.

Notes

- Depending on the conditions of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs cannot be played on the unit.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregular shaped CDs (e.g., heart-shaped or octagonal). It may result in malfunctions.

Notes on DVDs and Video CDs

Some playback operations of DVDs and Video CDs may be intentionally fixed by software manufacturers. As this unit plays DVDs and Video CDs according to disc content designed by the software manufacturer, some playback features of the unit may not be available, or other functions may be added. Refer also to the instructions applied with the DVDs and Video CDs. Some DVDs made for business purposes may not be played on the unit.

Regional code of the DVD player and DVDs

This DVD player is designed and manufactured for playback of region "2" encoded DVD software. The region code on the labels of some DVD discs indicates which type of player can play those discs. This unit can play only DVD discs labeled "2" or "ALL." If you try to play any other discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.



Disc-related terms

Title (DVD only)

The main film content or accompanying feature content or additional feature content, or music album. Each title is assigned a title reference number enabling you to locate it easily.

Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles.

A title is composed of one or several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, no chapters may be recorded.

Track (Video CD and audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

Scene

On a video CD with PBC (Playback control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.

A scene is composed of one or several tracks.

Types of video CDs

There are two types of video CDs:

Video CDs equipped with PBC (Version 2.0)

PBC (Playback control) functions allow you to interact with the system via menus, search functions, or other typical computer-like operations. Moreover, still pictures of high resolution can be played if they are included in the disc.

Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons.

- Distance:** About 23 ft (7 m) from the front of the remote sensor
- Angle:** About 30° in each direction of the front of the remote sensor

Remote control battery installation

Detach the battery cover on the rear of the remote control, and insert two (size AA) batteries with and aligned correctly.



Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.).

Before Use (Cont'd)

Precautions

Handling the unit

When shipping the unit
The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

When setting the unit

The picture and sound of a nearby TV or radio may be distorted during playback. In this case, position the unit away from the TV or radio, or turn off the unit after removing the disc.

To keep the surface clean

Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber of plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Cleaning the unit

To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzene, or thinner, as these might damage the surface of the unit.

To obtain a clear picture

The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor.

Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

For details, please contact your nearest dealer.

Notes on Discs

Handling discs

Do not touch the playback side of the disc.

Hold the disc by the edges so that fingerprints will not get on the surface.

Do not stick paper or tape on the disc.



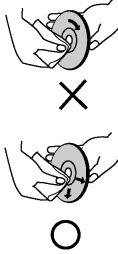
Storing discs

After playing, store the disc in its case.

Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

About Symbols

About the symbol display

* * may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not permitted by the DVD+VCR or is not available on that specific DVD video disc.

About the disc symbols for instructions

A section whose title has one of the following symbol is applicable only to the disc represented by the symbol.

DVD

Video CDs with the PBC (playback control) function.

Video CDs without the PBC (playback control) function.

Audio CDs.

MP3 disc.

JPEG disc.

Selecting the Viewing Source

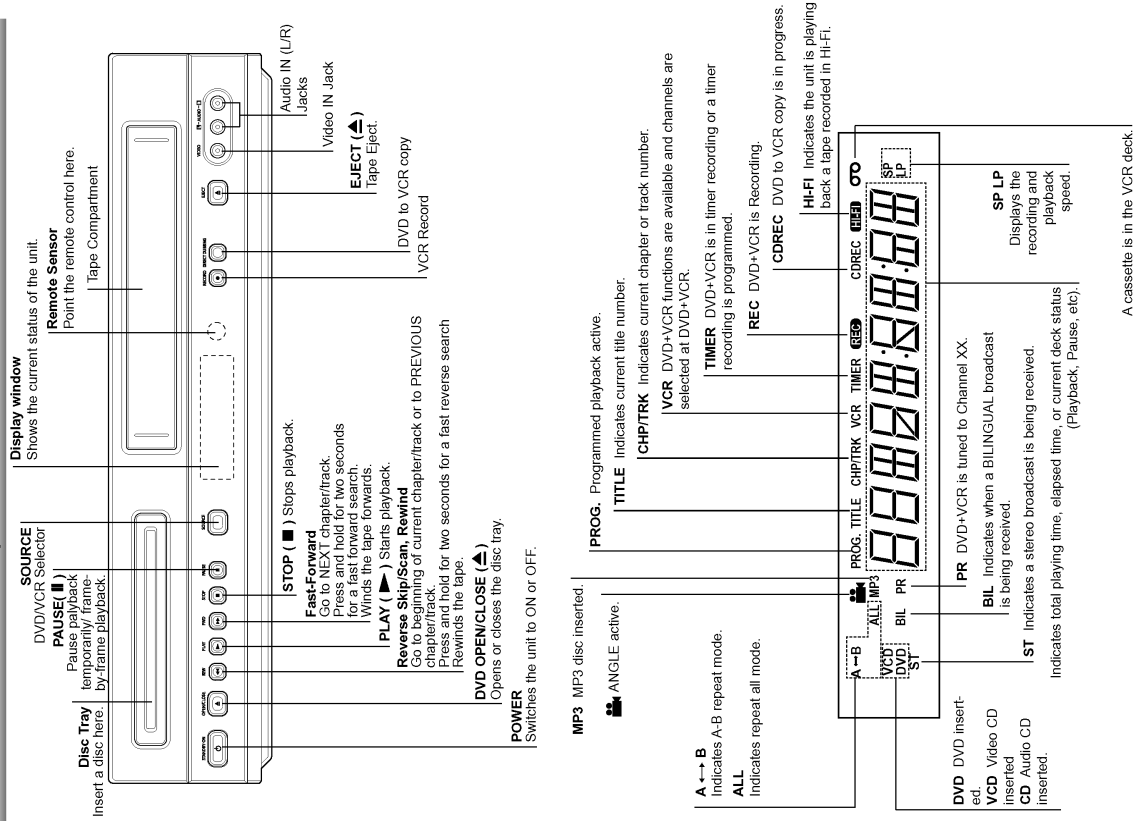
You must select one of your output sources (DVD or VCR) to view on the TV screen.

- **If you want to view DVD deck output source:**
Press DVD on the remote or SOURCE on the front panel and output source of DVD deck is viewed on the TV screen.
- **If you want to view VCR deck output source:**
Press VCR on the remote or SOURCE on the front panel and output source of VCR deck is viewed on the TV screen.

Notes

- If you insert a disc while the DVD+VCR is in the VCR mode, the DVD+VCR will switch to DVD mode automatically.
- If you insert a cassette tape without prevention tab while the DVD+VCR is in the DVD mode, the DVD+VCR will switch to VCR mode automatically.

Front Panel and Display Window



INTRODUCTION

Remote Control

DVD/VCR select button
Select the output source (DVD or VCR) to view on the TV screen.

TV/VCR
To view channels selected by the VCR tuner or by the TV tuner.

0-9 numerical buttons
Selects numbered options in a menu.

DISC MENU
Accesses menu on a DVD disc.
SYSTEM MENU
Accesses or removes DVD setup menu and VCR menu.

SKIP << /REW
Skip to beginning of current chapter or track, press twice in quick succession to go to previous chapter or track.
Press and hold button for about two seconds to search backward. (For DVD only)
Rewinds the tape during the STOP mode or for last reverse picture search.

SKIP >> /FWD
Skip to next chapter or track.
Press and hold button for about two seconds to search forward. (For DVD only)
Advances the tape during the STOP mode or for last forward picture search.

MARKER
Marks any point during playback.

SEARCH
Displays MARKER SEARCH menu.

INPUT
To select the VCR deck's source (Tuner, AV1, AV2 or AV3).

REC/ITR
Records normally or activates Instant Timer Recording with repeated presses.

REPEAT
Repeat chapter, track, title, all.

REPEAT A-B
Repeats sequence.

PROGRAM
Accesses or removes Program menu.

CLEAR
- Resets tape counter to 00:00:00
- Removes a track number on the program menu or a mark on the MARKER SEARCH menu.

POWER
Switches DVD+VCR ON and OFF.

EJECT, OPEN/CLOSE
- Opens and closes the disc tray.
- Ejects the tape in the VCR deck.

RETURN
Removes the setup menu.

DISPLAY
Accesses On-Screen display.
Switches among the clock, tape counter and tape remaining modes.

<▲/▶> (left/right/up/down)
- Selects an option in the menu
- ▲▼: Selects channel or VCR. Adjusts manually the tape's picture onscreen.

OK
- Acknowledges menu selection.
- Displays functions on the TV screen.

STOP
Stops playback.

PLAY
Starts playback.

PAUSE/STEP
Pause playback or recording.
Press repeatedly for frame-by-frame playback during pause.

SUBTITLE
Selects a subtitle language.

AUDIO
Selects an audio language (DVD) or an audio channel (CD).

ANGLE
Selects a DVD camera angle if available.

ZOOM
Enlarges DVD/VCD video image.

TITLE/LP
- Displays the disc's Title menu, if available.
- Selects recording speed

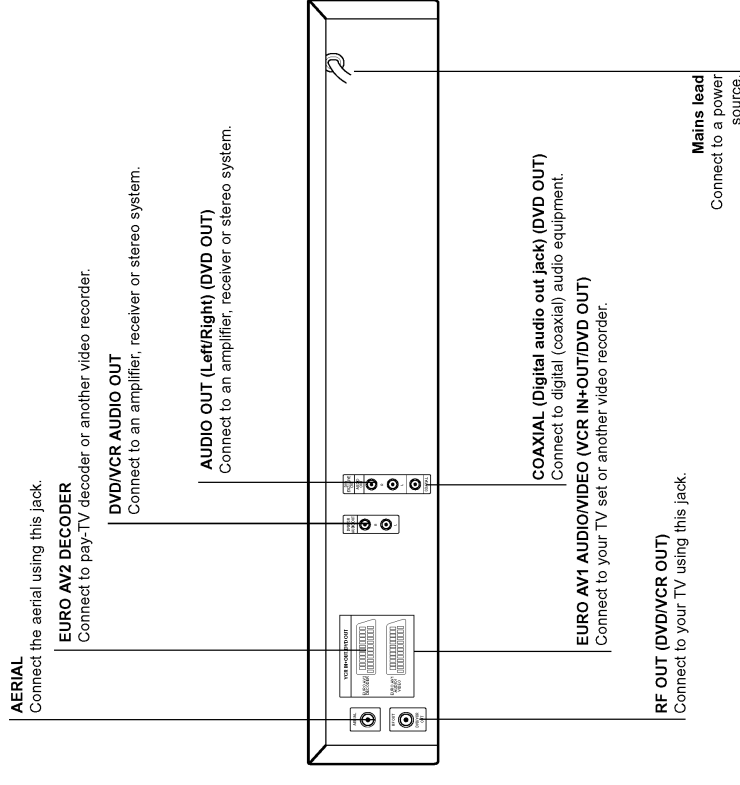
SHUFFLE
- Plays tracks in random order.

C.LOCK
Switch the Child Lock on and off.

SHOWVIEW
To display the programme menu for ShowView programming.

INTRODUCTION

Rear Panel



⚠ Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

Note

This remote control use the same buttons for VCR and DVD functions (ex. PLAY).
When using a VCR, first press the VCR button.
When using a DVD, first press the DVD button.

Connections

Tips

- Depending on your TV and other equipment you wish to connect, there are various ways you could connect the unit.
- Please refer to the manuals of your TV, Stereo System or other devices as necessary to make the best connections.
- For better sound reproduction, connect this unit's AUDIO OUT jacks to the audio in jacks of your amplifier, receiver, stereo or audio/video equipment. See "Connecting to optional equipment" on page 10.

Caution

- Make sure this unit is connected directly to the TV. Set the TV to the correct video input channel.
- Do not connect this unit's AUDIO OUT jack to the phono in jack (record deck) of your audio system.

Connecting to a TV & Decoder

- Make one of the following connections, depending on the capabilities of your existing equipment.

Basic connection (AV)

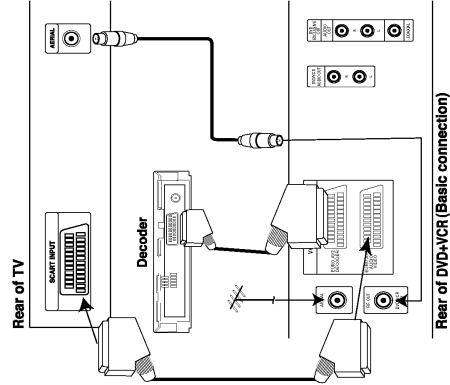
1 Connect the EURO AV1 AUDIO/VIDEO on the rear panel of this unit to the SCART input socket on the TV using a SCART lead.

2 Some TV broadcasters transmit encoded television signals which you can only see with a purchased or rented decoder. You can connect such a decoder (descrambler) to the DVD+VCR (D).

Basic connection (RF)

1 Connect the RF antenna cable from your indoor/outdoor antenna to AERIAL jack on the rear panel of this unit.

2 Connect the supplied RF antenna cable from the RF OUT (DVD/VCR OUT) jack on the rear panel of this unit to your television's Antenna Input.



Rear of DVD+VCR (Basic connection)

PREPARATION

Connections (Cont'd)

Connecting to Optional Equipment

Connecting to an amplifier equipped with two channel analog stereo or Dolby Surround

Connect the Left and Right DVD/VCR AUDIO OUT or AUDIO OUT (DVD EXCLUSIVE OUT) jacks on this unit to the audio left and right in jacks on your amplifier, receiver or stereo system, using the audio cables.

Connecting to an amplifier equipped with two channel digital stereo (PCM) or to an Audio/Video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2 or DTS)

1 Connect one of this unit's DIGITAL AUDIO OUT jack (COAXIAL) to the corresponding in jack on your amplifier. Use an optional digital (coaxial) audio cable.

2 You will need to activate this unit's digital output. (See "Digital Audio Output" on page 18).

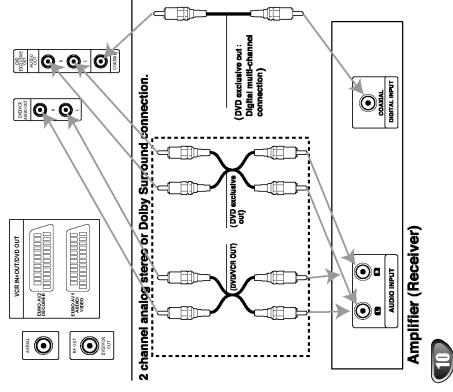
Digital Multi-channel sound

A digital multi-channel connection provides the best sound quality. For this you need a multi-channel Audio/Video receiver that supports one or more of the audio formats supported by your unit (MPEG 2, Dolby Digital and DTS). Check the receiver manual and the logos on the front of the receiver.

Warning:

Due to the DTS Licensing agreement, the digital output will be in DTS digital out when DTS audio stream is selected.

Rear of DVD+VCR



Before Operation - VCR part

Tuning in a video channel on your TV

Video channel (RF output channel) is the channel on which your TV receives picture and sound signals from the DVD+VCR through the RF cable.

If you have used a **SCART** lead you will not have to tune your TV, simply select the **AV** channel. The **AV** channel is already pre-tuned for optimum video playback on your TV.

Perform the following steps only if interference appears in the TV picture after you have moved to a different area or a new station has started broadcasting in your area, or if you change the connection from RF connection to AV connection, or vice versa.

1 Turn on DVD+VCR and TV.

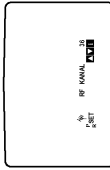
2 Set the vacant position 36 on your TV.

3 Press **⏻** on the remote control to enter the standby mode (the clock indicator will be dimmed).

4 Press and hold **REW** or **FWD** on the DVD+ VCR for more than 4 secs.

RF 36 will appear in the DVD+VCR display.

The following picture will be displayed on the TV screen.



If the picture is snowy, move to step 5. If the picture is clean, press **⏻** on the DVD+VCR to finish.

5 Press **REW** or **FWD** on the DVD+VCR to set the video channel to a vacant position between 22 and 68 which is not occupied by any local station in your area.

Note

The RF channel will not change until step 6 has been executed.

6 Press **⏻** to store the new RF video channel into the DVD+VCR memory.

Now tune your TV set to the new DVD+VCR RF channel.

Note

If the TV picture was clear in step 4, do not retune your TV.

Using your DVD+VCR for the very first time

For the following steps we assume that you have just connected your DVD+VCR for the very first time. To make tuning TV stations an easy task your DVD+VCR incorporates the **Automatic Channel Memory System (ACMS)**. This system will automatically tune and store TV channels in your DVD+VCR.

While this is happening the clock (date & time) in the DVD+VCR will be set automatically.

1 Make sure that you have correctly installed your DVD+VCR.

Press **⏻** to turn on your DVD+VCR.

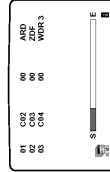
If the initial Menu Screen doesn't appear on screen, make sure that you have tuned your TV to a video channel. Or if this is correct it may mean that your DVD+VCR is already tuned.

2 Press **⏻** or **▶** to select the desired country.

(A: Austria, B: Belgium, CH: Switzerland, D: Germany, DK: Denmark, E: Spain, F: France, I: Italy, N: Norway, NL: Netherlands, P: Portugal, S:Sweden, SF: Finland, AUTRES: Others.)



3 Press **OK** to start the automatic tuning process.



Programme number	TV Station
PR01	ARD
PR02	ZDF
PR03	WDR 3
PR04	BR3
PR05	HR3
PR06	NDR3

The TV station shown above may vary according to the area you live in.

4 Press **SYSTEM MENU** to remove the menus from the TV screen.

Before Operation - VCR part

Setting the clock Manually

The clock in your DVD+VCR controls time and date settings for your DVD+VCR.

The clock is set automatically during **ACMS** (Automatic Channel Memory System) when your DVD+VCR detects a channel that broadcasts a Teletext signal. If the broadcast signal is weak the clock will not be set and will require setting manually.

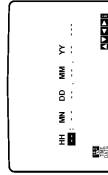
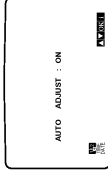
1 Press **SYSTEM MENU**.

Press **⏻** or **▶** to select **TIME DATE**.

Press **OK**.

The auto adjust mode can be set to "OFF" by pressing **▲** or **▼** if you want to set the time manually.

Press **OK**.



5 Press **SYSTEM MENU** to remove the menus from the TV screen.



To set the colour system

1 Press **SYSTEM MENU**.

The main menu will appear on the TV screen.

3 Press **⏻** or **▶** to select the **SYSTEM** and press **OK**.

4 Press **▲** or **▼** to select according to the **COLOUR** system used.

Before Operation - VCR part

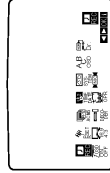
How to using the main menu

This VCR can easily be programmed by using the menus displayed on screen.

The menus are controlled from the Remote Control Handset.

1 Switch on your TV set and video recorder by pressing the **⏻** button.

2 Press **SYSTEM MENU** button.
The main menu will appear on the TV screen.



- **REC** - Timer recording setting (see p. 23).
- **PR SET** - Manual tuning setting (see p. 14).
- **ACMS** - ACMS (Automatic Channel Memory System) (see p. 13).
- **TIME DATE** - Date & clock setting (see p. 12).
- **SYSTEM** - To set the Colour TV System (see p. 12).
- **ABC OSD** - To change the language setting for OSD. You can select the language among English, Deutsch, Français, Italiano and Español.
- **Dr.** - To check a problem with your VCR (see p. 31).
- **FOSD ON/OFF** - To display the operational mode of your VCR (see p. 31).
- **16:9/4:3** - To select the aspect ratio of your TV (see p. 32).
- **DECODER** - To use a pay-TV decoder (or Satellite) with your VCR (see p. 32).
- **OPR** - To improve the playback picture (see p. 20).
- **NIC** - To activate or deactivate the NICAM digital sound (see p. 32).

3 Press **◀** and **▶** to select the desired menu.
Press **OK** and use **▲** or **▼** to select.

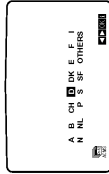
4 Press **SYSTEM MENU** to return to a TV picture.

Tuning in TV Stations Automatically

If the TV broadcast signal is weak your VCR may not detect the necessary information and will be unable to store them correctly. To overcome this problem please turn to the **MANUAL TUNING** section on page 14.

1 Press **⏻** to turn on your VCR.

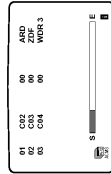
2 Press **SYSTEM MENU** button.
The main menu will appear on the TV screen.
Press **◀** or **▶** to select the **ACMS**.
Press **OK**.



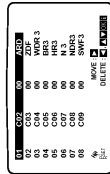
3 Press **◀** or **▶** to select **COUNTRY**.

(A: Austria, B: Belgium, CH: Switzerland, D: Germany, DK: Denmark, E: Spain, F: France, I: Italy, N: Norway, NL: Netherlands, P: Portugal, S: Sweden, SF: Finland, OTHERS)
Press **OK** again to start the automatic tuning process.

The VCR's clock will be set automatically when automatic tuning has finished. If the clock is wrong please see "Setting the clock manually" on page 12.



4 The **TV STATION TABLE** will appear when tuning is complete.
Press **SYSTEM MENU** to save your settings.

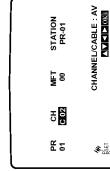
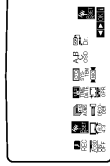


Before Operation - VCR part

Tuning in TV Stations Manually

In certain areas of the country broadcast signals may be too weak for your VCR's automatic tuning process to find or assign TV stations correctly. You must tune in these weaker broadcast stations manually in order for your VCR to store them.

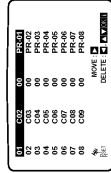
1 Press **SYSTEM MENU**.
The main menu will appear on the TV screen.
Press **◀** or **▶** to select the **PR SET**.
Press **OK**.



2 Press **SYSTEM MENU**.

The station table will appear.

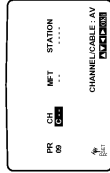
Press **▲** or **▼** to select the programme number that you want to tune (for example, PR 09).



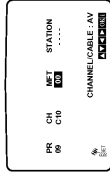
Press **OK**.

3 Press **INPUT** to select **C** (Standard stations) or **S** (Cable stations):
Enter the channel number of station that you want to tune with the **numbered buttons** or use **▲** or **▼** to find the required station.

Press **OK** and select the colour system of its channel by pressing **▲** or **▼**.
Press **OK** and then use the **▲** or **▼** buttons to move through the channel numbers to find the required station.

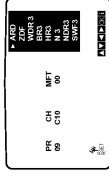


4 Searching will stop when it locates a station.
Press **▶** to select **MFT**.
Control the fine tuning of the station by using **▲** or **▼**.



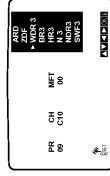
5 Press **▶** to select **STATION** so that you may name your TV station.
Press **OK**.

The TV station name list will appear.



6 Use **▲** or **▼** to select a station name from the list.
Press **OK** to select it.

If your station name isn't on the list do not press **OK**, but go to stage 7.

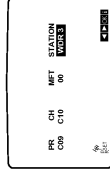


7 You can change a TV station name manually rather than using the "standard" names.

Press **▶**.

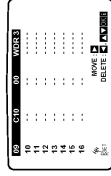
Use **▲** or **▼** to select **letters** and **numbers** for the new station name.

Use **◀** or **▶** to move back and forth between characters.
Press **OK**.



8 Press **SYSTEM MENU**, confirm the station placement.
Press **SYSTEM MENU** again.

Your new TV station has now been tuned into your VCR. If you wish to manually tune other stations repeat stages 1 - 8.

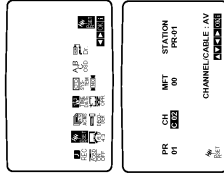


Before Operation - VCR part

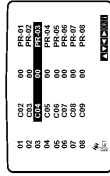
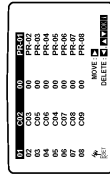
Changing the order of TV Stations

After tuning TV stations into your VCR you may wish to change the order in which they are stored without having to retune them again. The instructions given on this page will show you how you can simply move them into your desired order.

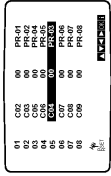
- 1 Press **SYSTEM MENU**.
The main menu will appear on the TV screen.
Press **4** or **▶** to select the **PR SET**.
Press **OK**.



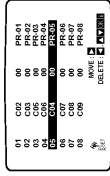
- 2 Press **SYSTEM MENU**.
Use **▲** or **▼** to select the **programme number** you want to move (for example, PR 03).
Press **▶**.



- 3 Use **▲** or **▼** to select the **programme number** you want to move to (for example, PR 05).



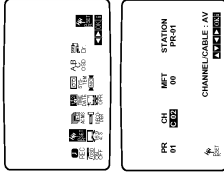
- 4 Press **OK**.
The selected **programme** will be moved to the **new programme number**.
If you wish to move other TV stations repeat stages 1 - 4.
Press **SYSTEM MENU** to remove the menus from the TV screen.



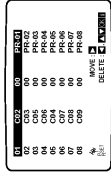
Deleting TV Stations

After tuning TV stations into your VCR you may wish to delete a station.
The instructions given on this page will show you how you can easily delete any unwanted TV stations.

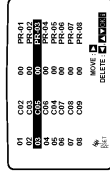
- 1 Press **SYSTEM MENU**.
The main menu will appear on the TV screen.
Use **4** or **▶** to select the **PR SET**.
Press **OK**.



- 2 Press **SYSTEM MENU**.
Press **▲** or **▼** to select the **programme number** you want to delete. (for example, PR 03)



- 3 Press **4**.
After a short while, the selected station will be deleted.



- 4 Press **SYSTEM MENU** to remove the menus from the TV screen.
If you wish to delete other TV stations repeat stages 1 - 3.

How to select Stored TV stations:

Stored TV stations can be selected in either of two ways.
Use **▲** or **▼** to select different stations that are tuned to your DVD/VCR.
You may also directly select stations using the **numbered buttons** on the remote control.

Before Operation - DVD part

General Explanation

This manual gives the basic instructions for operating the DVD+VCR. Some DVDs require specific operation or allow only limited operation during playback. When this occurs, the symbol appears on the TV screen, indicating that the operation is not permitted by the DVD+VCR or is not available on the disc.

On-Screen Display

The general playback status can be displayed on the TV screen. Some options can be changed on the menu.

On-screen display operation

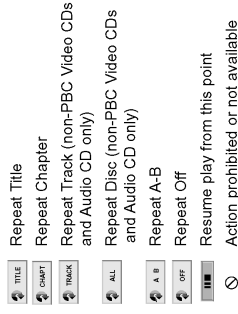
- 1 Press **DISPLAY** during playback.

- 2 Use **▲▼** to select an item.

The selected option will be highlighted.

- 3 Use **◀▶** to change the **setting of an item**.
The number buttons can also be used for setting numbers (e.g., title number). For some functions, press **OK** to execute the setting.

Temporary Feedback Field Icons



Notes

- Some discs may not provide all of the features on the on-screen display example shown below.
- If no button is pressed for 10 seconds, the on-screen display disappears.

DVD

Options	Function (Use ▲▼ to select desired option)	Selection Method
Title Number	1 / 3 Shows the current title number and total number of titles , and skips to the desired title number.	◀▶, or Numeric, OK
Chapter Number	1 / 42 Shows the current chapter number and total number of chapters , and skips to the desired chapter number.	◀▶, or Numeric, OK
Time search	0:20:09 Shows the elapsed playing time , and searches the point by the elapsed time directly.	Numeric, OK
Audio language and Digital Audio Output mode	1 ENG DDD 5,1 CH Shows the current audio soundtrack language, encoding method, and channel number , and changes the setting.	◀▶, or AUDIO
Subtitle language	OFF Shows the current subtitles language , and changes the setting.	◀▶, SUBTITLE
Angle	1 / 1 Shows the current angle number and total number of angles , and changes the angle number.	◀▶, ANGLE
Sound	NORM. Shows the current sound mode , and changes the setting.	◀▶

VIDEO VCD1

Items	Function (Use ▲▼ to select desired item)	Selection Method
Track Number	1 / 4 Shows the current track number, total number of tracks and PBC On mode , and skips to the desired track number.	◀▶, or Numbers, OK
Time	0:20:09 Shows the elapsed playing time (Display only)	-
Audio Channel	STER. Shows the audio channel , and changes the audio channel.	◀▶, or AUDIO
Sound	NORM. Shows the current sound mode , and any changes to the setting.	◀▶, or /

PREPARATION

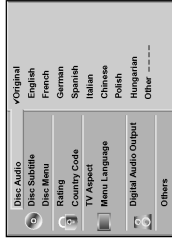
Before Operation (Continued) - DVD part

Initial Settings

You can set your own Personal Preferences on the player.

General Operation

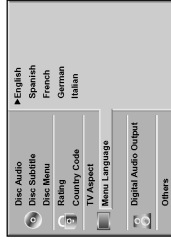
- 1 Press SYSTEM MENU.
The setup menu appears.



- 2 Use **▲▼** to select the desired item.
The screen will show the current setting for the selected option, as well as alternate setting(s).
- 3 While the desired option is selected, press **►**, then **▲▼** to select the desired setting.
- 4 Press OK to confirm your selection.
Some items require additional steps.
- 5 Press SYSTEM MENU, RETURN, or PLAY **►** to exit the setup menu.

Menu Language

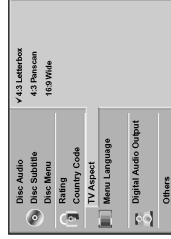
Select a language for the setup menu. This is the menu you see when you press SYSTEM MENU.



Picture

TV Aspect **DVD**

4:3 Letterbox: Select when a standard 4:3 TV is connected. Displays theatrical images with masking bars above and below the picture.
4:3 Panscan: Select when a conventional TV set is connected. The video material formatted in the Pan & Scan style is played back in that style (Both sides of the picture are cut off).
16:9 Wide: Select when a 16:9 wide TV is connected.



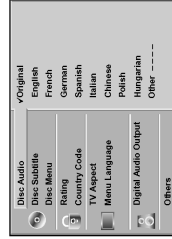
Language

Disc Language **DVD**

Select a language for the disc's Menu, Audio, and Subtitle.
Original: The original language set for the disc is selected.
Other: To select another language, press number buttons to enter the corresponding 4-digit number according to the language code list on page 35. If you enter the wrong language code, press CLEAR.

Notes

Disc Language selection may not work for some DVDs.



Before Operation (Continued) - DVD part

Sound

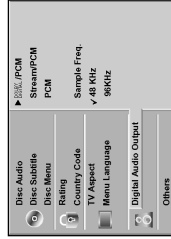
Digital Audio Output

Each DVD disc has a variety of audio output options. Set the DVD+VCR's Digital Audio Output according to the type of audio system you use.

DOLBY DIGITAL/PCM: Select DOLBY DIGITAL/PCM if you connected the DVD+VCR's DIGITAL AUDIO OUT jack to a Dolby Digital decoder (or an amplifier or other equipment with a Dolby Digital decoder).

Stream/PCM: Select Stream/PCM if you connected the DVD+VCR's DIGITAL AUDIO OUT jack to an amplifier or other equipment with a DTS decoder, Dolby Digital decoder or MPEG decoder.

PCM: Select when connected to a 2 channel digital stereo amplifier. The DVD+VCR output sounds in the PCM 2ch format when you play a DVD video disc recorded on the Dolby Digital, MPEG1, or MPEG2 recording system.



Dynamic Range Control (DRC)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). Then, you may listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

Vocal

Set Vocal to On only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc will mix into normal stereo sound.

PBC

Set Playback Control (PBC) to On or Off.

On: Video CDs with PBC are played according to the PBC.
Off: Video CDs with PBC are played the same way as Audio CDs.

Auto Play **DVD**

You can set up the DVD Player so a DVD disc automatically starts playing whenever the DVD is inserted. If Auto Play mode is set to On, this DVD player will search a title that playback time is long most and then play back the title automatically.
On: Auto Play function is activated.
Off: Auto Play function is not activated.

Note

The Auto Play function may not work for some DVDs.

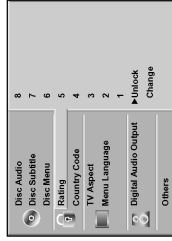
PREPARATION

Before Operation (Continued) - DVD part

Parental Control

Rating DVD

Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc. These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes.



- 1 Select "Rating" on the Setup menu using the **▲▼** buttons.
- 2 While "Rating" is selected, press **►**.

When you have not entered a password yet.

Enter a 4-digit password using the numbered buttons to create a personal 4-digit security password, then press OK. Enter the 4-digit password again and press OK to verify.

When you have already entered a password;

Enter a 4-digit password using the numerical buttons to confirm the personal 4-digit security password, then press OK.

If you make a mistake before pressing OK, press CLEAR and enter 4-digit security password again.

- 4 Select a rating from 1 to 8 using **▲▼** buttons.

Level 1 : DVD software for adults cannot be played back.

Level 8 : All DVD software can be played back.
The limitation will be more severe as the level number is lower.

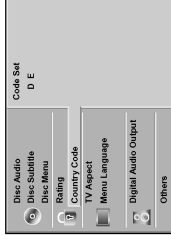
Unlock: If you select **Unlock**, Parental Control is not active. The disc will play in full.

Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the DVD+VCR, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc.

- 5 Press OK to confirm your rating selection, then press **SYSTEM MENU** to exit the menu.

Area Code DVD

Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country/Area Code List", page 36.).



- 1 Select Country Code using the **▲▼** buttons on the setup menu.
- 2 While Country Code is selected, press **►**.
- 3 Follow step 3 of "Rating" on left.

- 4 Select the first character using the **▲▼** buttons.

- 5 Shift the cursor using **►** button and select the second character using **▲▼** buttons.

- 6 Press OK to confirm your Area code selection, then press **SYSTEM MENU** to exit the menu.

Note

Confirmation of the 4-digit password is necessary when the password is changed (see "Changing the 4-digit Code" below).

Changing the 4-digit Code

- 1 Follow Steps 1-2 as shown above to the left (Rating).
- 2 Enter the old password, then press OK.
- 3 Select Change using **▲▼** buttons then press OK.
- 4 Enter the new 4-digit password, then press OK.
- 5 Enter exactly the same password a second time and verify by pressing OK.
- 6 Press **SYSTEM MENU** to exit the menu.

If you forget your 4-digit Code

If you forget your password, clear the current password by following the procedure below.

- 1 Press **SYSTEM MENU** to display the setup menu.
- 2 Use the Number buttons to enter the 6-digit number "210499".
The 4-digit password is cleared.
- 3 Enter a new password as shown above to the left (Rating).

Operation with tape

Playing a tape

You will only be able to load and eject video cassettes when your VCR is plugged into the mains. Your VCR may also playback recordings from NTSC tapes (on PAL TV).

Getting a better picture

When a cassette is inserted and playback started, the automatic tracking function works to get the best possible picture automatically. If the quality of the recording is poor, repeatedly press **▲** or **▼** on the remote control to manually adjust the tracking until any distortions have been removed. Press numbered 0 on the remote control to switch automatic tracking back on again.

- 1 Make sure that you have correctly connected your VCR as described earlier in this book.
Turn on your TV.

Press **0** to turn on your DVD+VCR.

Insert the video cassette into your DVD+VCR. The video cassette should have the window side facing up and the arrow facing away from you.

- 2 Press **PLAY** **►** to start playing your tape.

If you load a video cassette which has had its record protection tab removed, playback of the cassette will start automatically.

AUTO TRACKING

Your DVD+VCR will automatically adjust the tracking to give the best picture quality.

- 3 Press **PAUSE/STEP II** to still a picture.

Press **PAUSE/STEP II** repeatedly to advance the tape frame by frame.

If you hold down **►►** the picture will be slowed down at about 1/19 times the normal playback. Tapes can be paused for up to 5 minutes. After 5 minutes your DVD+VCR will stop the tape to prevent damaging the tape or your DVD+VCR. Still picture quality can be improved slightly by using **▲** or **▼**.

- 4 Press **PLAY** **►** to continue playing your tape.

Picture search:

During playback press either **◀◀** or **▶▶** to this will enable you to rapidly wind the tape (7 times normal playback) see where you are on the tape.

Logic search:

During fast forwarding or rewinding press and hold **◀◀** or **▶▶** the picture will be played back at 7 times normal playback speed.

5 Slow motion playback, Shuttle :

During playing back or still picture press **◀** or **▶**. You can reach the following playback speeds. (-7xplay, -3xplay, -play, still, 1/19 slow, play, 2xplay, 7xplay)

To switch off the slow motion and shuttle, press the desired function.

During slow motion and shuttle, the noise bars may appear on the picture according to the status of tape.

If distortions can be seen in the picture, reduce them with **▲** or **▼**.

- 6 Press **STOP** to end playback.

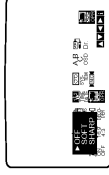
Press **EJECT**.

If the end of the tape is reached, your DVD+VCR will stop playback automatically, rewind, stop, eject the tape.

OPR (Optimum Picture Response)

This feature automatically improves playback picture quality by adjusting your DVD+VCR to the condition of the tape.

- 1 Press **SYSTEM MENU**.



- 2 Press **▲** or **▼** to select OPR.

- 3 Press OK.

- 4 Press **▲** or **▼** repeatedly to select: OFF, SOFT or SHARP.

Please note you may only set OPR when playing a tape.

- 5 Press **SYSTEM MENU** return to screen.

Operation with tape (Continued)

Instant Timer Recording (ITR)

Your VCR allows you to make recordings using a variety of simple methods:

Instant Timer Recording (ITR) start recording immediately for a set period of time or until the video cassette runs out.

Your DVD+VCR incorporates Long Play (LP) which enables you to record up to twice the amount of time on a video cassette. For example an E-180 will record up to 180 minutes using Standard Play (SP); using LP you will be able to record up to 360 minutes. Please note there will be a slight loss in picture and sound quality when using LP.

1 Make sure that you have correctly connected your VCR as described earlier in this book.

Press **⏻** to turn on your VCR.

2 Insert a video cassette with protection tab into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.

3 Press **▲** or **▼** to select the **programme number** you wish to record.
You may also directly select programme number using the **numbered buttons** on the remote control.

4 If you wish to record directly from the SCART or RCA sockets repeatedly press **INPUT** until the socket you wish to record from is displayed.

AV 1 for recording from EURO AV1 SCART socket on the rear of your unit.

AV 2 for recording from EURO AV2 SCART socket on the rear of your unit.

AV 3 for recording from VIDEO IN and AUDIO IN (Left & Right) sockets on the front of your unit.

5 Press **LP** if you wish to record in Long Play or Standard Play.
SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP.

6 Press **REC/ITR** on the remote to start recording. **RECORD** will appear on the TV screen.

Press **RECORD** on your unit or press **REC/ITR** on the remote several times. Each successive press will increase the record time by 30 minutes until you reach a maximum of 9 hours.

7 Press **PAUSE/STEP II** to avoid recording unwanted scenes.

Press **PAUSE/STEP II** to continue recording. Tapes can be paused for up to 5 minutes; **RECP** will be displayed when a tape is paused. After 5 minutes your DVD+VCR will stop recording to prevent damaging the tape or your DVD+VCR.

8 Press **STOP** twice within 5 seconds to end recording.
EJECT will appear on the TV screen for a few seconds.

Notes

- If you do not wish to record on a tape (this can happen quite easily by accident!) remove the protection tab on the back edge of the video cassette.
- It is possible to record on a video cassette with the record protection tab removed by covering the hole with self adhesive tape.
- Remember you can record one programme while watching another by starting your instant recording, press **TV/VCR** to disappear VCR indicator in the display window and then selecting a different channel on your TV.

Operation with tape (Continued)

ShowView Programming

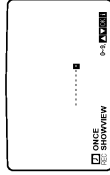
ShowView greatly simplifies entering the date, channel, start and end times of a Timer Recording by simply entering a ShowView Code. ShowView Codes are published in most TV guide magazines; they can vary one to nine numbers in length.

ShowVIEW is a registered trademark of Gemstar Development Corporation.

The ShowVIEW system is manufactured under licence from Gemstar Development Corporation.

1 Make sure that TV channels have been tuned and stored in correct SHOWVIEW order.
Insert a video cassette with protection tab into your VCR.

2 Press **SHOWVIEW**.



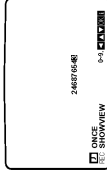
Press **▲** or **▼** to select the recording type.

ONCE: To record once.

WEEKLY: To record at the same time every week.
DAILY: To record every day (except Saturday and Sunday) at the same time.

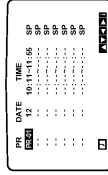
4 Press the **numbered buttons** to enter the **ShowView Code** of the TV programme that you wish to record.

If you make a mistake press **◀** then enter the revised number.

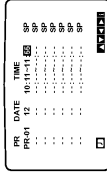


5 Press **OK**.

If **PLEASE CHECK** is displayed it means that you have entered the wrong ShowView number, entered the ShowView number incorrectly, or if "••" is displayed, you have to enter the programme number of the station, you want to record from.



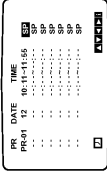
6 Press **◀** or **▶** to select the settings that you wish to revise. (PR, DATE, TIME, VPS and SP).
Press **▲** or **▼** to enter the correct information.



7 Press **▲** or **▼** to switch VPS/PDC on or off.
Press **▲** or **▼** to select the recording speed.

Press **▲** or **▼** to select the desired tape speed (SP, IP or LP).
IP mode determines how much tape is left and switches speed from SP to LP. If necessary, to complete recording the program.

Check that the timer event details are correct.
If you wish to record from AUDIO IN and VIDEO IN on the front or from either of the EURO SCART sockets on the back of VCR, press **INPUT** to select for correct display (AV1, AV2 or AV3).



8 If you want to make another ShowView recording repeat stages **2 - 7**.

Press **SYSTEM MENU** twice.

If **PLEASE CHECK** is displayed, you have entered incorrect information and will need to re-enter the data.

Press **⏻** to switch your VCR power off mode.
TIMER will appear in the video recorder's display while your VCR waits to make the recording. To watch a DVD during timer recording standby mode, press **POWER** and VCR/DVD to switch to DVD mode.

Notes

- Video Programme System (VPS)**
The Video Programme System (VPS) ensures that the TV Programmes that you have programmed for timer recording will be recorded exactly from their beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start, or if the programme is extended beyond its scheduled time. Also, if a programme is interrupted, for example, if a news flash is inserted, the recording will also be interrupted automatically and resumed when the programme continues.








The VPS signal is broadcast by the TV station and this controls the timer in the video recorder.

VPS should be set ON for all timer recordings from TV stations broadcasting these signals. It should be set OFF for all timer recordings from TV stations that are not broadcasting these signals.

*** The similar system PDC, which is used in the time being in the Netherlands, can also be used with your new video recorder.

General Features (continued)

Slow Motion

- 1 Press **SLOW**  during playback or still mode.
The player will enter SLOW mode.
- 2 Press **SLOW**  repeatedly to select the required speed :  1/6,  1/8,  1/4 or  1/2 (forward).
- 3 To exit slow motion mode, press **PLAY** .

Shuffle

- 1 Press **SHUFFLE** during playback or in stop mode.
The unit automatically begins Random Playback and "RANDOM" appears on the TV screen.
- 2 To return to normal playback, press **SHUFFLE** again until "NORMAL" appears on the TV screen.

Tips

By pressing  or  during Random Playback, the unit selects another title (track) and resumes Random playback.

Note

- This function only works with DVD karaoke discs and video CD without PBC.
- On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Random function. See page 18.

Repeat



DVD Video Discs - Repeat Chapter/Title/Off

- 1 To repeat the currently playing chapter, press **REPEAT**.
The Repeat Chapter icon appears on the TV screen.
- 2 To repeat the title currently playing, press **REPEAT** a second time.
The Repeat Title icon appears on the TV screen.
- 3 To exit Repeat mode, press **REPEAT** a third time.
The Repeat Off icon appears on the TV screen.

Video CDs - Repeat Track/All/Off

- 1 To repeat the track currently playing, press **REPEAT**.
The Repeat Track icon appears on the TV screen.
- 2 To repeat the disc currently playing, press **REPEAT** a second time.
The Repeat All icon appears on the TV screen.
- 3 To exit Repeat mode, press **REPEAT** a third time.
The Repeat Off icon appears on the TV screen.



Note

On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Repeat function. See page 18.

General Features (continued)

Zoom

The Zoom function allows you to enlarge the video image and to move through the enlarged image.

- 1 Press **ZOOM** during playback or still playback to activate the Zoom function.
If you press **ZOOM** repeatedly, the magnification level increase up to six steps
- 2 Use the   buttons to move through the zoomed picture.
- 3 Press **CLEAR** to resume normal playback or return to the paused image.

Note

- The zoom function may not work for some DVDs.

Marker Search




You can start playback from a memorized point. Up to nine points can be memorized.


To enter a mark, follow these steps.

- 1 During disc playback, press **MARKER** when playback reaches the spot that you want to memorize.
The Marker icon will appear on the TV screen briefly.
- 2 Repeat step 1 to enter up to nine Marker points on a disc.

To Recall a Marked Scene



- 1 During disc playback, press **SEARCH**.
The **MARKER SEARCH** menu will appear on the screen.
- 2 Within 10 seconds, press  to select a Marker number that you want to recall.
- 3 Press **OK**.
Playback will start from the Marked scene.
- 4 To remove the **MARKER SEARCH** menu, press **SEARCH**.

To clear a Marked Scene

- 1 During disc playback, press **SEARCH**.
The **MARKER SEARCH** menu will appear on the screen.
- 2 Within 10 seconds, press  to select a Marker number that you want to erase.
- 3 Press **CLEAR**.
The Marker number will be erased from the list.
- 4 Repeat steps 2 and 3 to erase additional Marker numbers.
- 5 To remove the **MARKER SEARCH** menu, press **SEARCH**.

Special DVD Features

Checking the contents of DVD Video discs: Menus

DVDs may offer menus that allow you to access special features. To use the disc menu, press **DISC MENU**. Then, press the appropriate number button to select an option. Or, use the   buttons to highlight your selection, then press **OK**.

Title Menu

- 1 Press **TITLE**.
If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear.
- 2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title.
- 3 To remove the title menu, press **TITLE** again.

Disc Menu

- 1 Press **DISC MENU**.
The disc menu is displayed.
- 2 To remove the disc menu, press **DISC MENU** again.

Camera Angle

If the disc contains sequences recorded from different camera angles, the angle icon blinks on the TV screen. You can then change the camera angle if you wish.

- Press **ANGLE** repeatedly during playback to select a desired angle.
The number of the current angle appears on the display.

Changing the Audio Language



Press **AUDIO** repeatedly during playback to hear a different audio language or audio track.

Changing the Audio Channel




Press **AUDIO** repeatedly during playback to hear a different audio channel (STER., LEFT or RIGHT).

Subtitles

Press **SUBTITLE** repeatedly during playback to see the different subtitle languages.

Note

If  appears, the feature is not available on the disc.

Repeat A-B




To repeat a sequence in a title:

- 1 Press **REPEAT A-B** at your chosen starting point.
A+ appears briefly on the TV screen.
- 2 Press **REPEAT A-B** again at your chosen end point.
AB appears briefly on the TV screen, and the repeat sequence begins (A ↔ B+ appears the display window).
- 3 To cancel the sequence, press **REPEAT A-B**.

Time Search



The Time Search function allows you to start playing at any chosen time on the disc.

- 1 Press **DISPLAY** during playback. The on-screen display appears on the screen.
The Time Search box shows the elapsed playing time of the current disc.
- 2 Within 10 seconds, press  to select the Time Search icon in the on-screen display.
The ":-:--:" appears in the Time Search box.
- 3 Within 10 seconds, use the number buttons to enter the required start time. Enter hours, minutes, and seconds from left to right in the box.
If you enter the wrong numbers, press **CLEAR** to remove the numbers you entered. Then enter the correct numbers.
- 4 Within 10 seconds, press **OK** to confirm the start time.
Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point.

3D Surround



This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers. Instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

- 1 Press **DISPLAY** during playback.
- 2 Use  to select the sound icon.
The sound option will be highlighted.
- 3 Use  to select "NORM.", or "3D SUR".

Screen Saver

A screen saver image appears when you leave the DVD Player in stop mode for about fifteen minutes.

Operation with Audio CD and MP3 Disc

Playing an Audio CD and MP3 Disc

CD MP3

The DVD Player can play MP3 formatted recordings on CD-ROM, CDR or CDRW discs.
Before playing MP3 recordings, read the notes on MP3 Recordings on right.

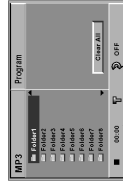
1 Insert a disc and close the tray.

Audio CD: Audio CD menu appears on the TV screen go to step 4.
MP3 disc: The MP3-JPEG choice menu appears on the TV screen. Go to step 2



2 Use ▲/▼ to select the MP3 then press OK.

The MP3 menu appears on the TV screen.
Press RETURN to move to the MP3-JPEG choice menu.

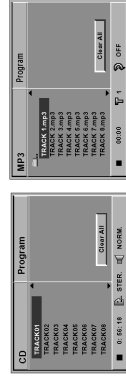


3 Use ▲/▼ to select a folder then press OK.

A list of files in the folder appears.

4 Use ▲/▼ to select a track then press PLAY or OK.

Playback starts.
During playback, the current track's elapsed playing time will appear on the display window and menu.
Playback will stop at the end of the disc.
Press TITLE to move to the next page.
Press DISC MENU to move to the previous page.



Audio CD menu

MP3 menu



Tip
If you are in a file list and want to return to the Folder list, use the ▲/▼ to highlight ⇐- and press OK to return to the previous menu screen.

5 To stop playback at any other time, press STOP.

OPERATION

Notes on MP3 Recordings

About MP3

- An MP3 file is audio data compressed by using the MPEG1 audio layer-3 file-coding scheme. We call files that have the ".mp3" file extension "MP3 files". The player cannot read an MP3 file that has a file extension other than ".mp3".

MP3 Disc compatibility with this player is limited as follows:

- Sampling Frequency / only at 44.1kHz
- Bit rate / within 32 - 320kbps
- CD-R physical format should be "ISO 9660"
- If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "Direct-CD" etc., it is impossible to playback MP3 files. We recommend that you use "Easy-CD Creator", which creates an ISO9660 file system.
- A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one.
- File names should be named using 8 letters or less and must incorporate ".mp3" extension e.g. "xxxxxxxx.mp3".
- Do not use special letters such as "/ : * ? < > " etc.
- Total number of files on the disc should be less than 650.

This DVD player requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files). That require certain pre-existing conditions (see above) to insure compatible playback.

Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

Operation with Audio and MP3 Disc (Continued)

Pause CD MP3

- Press PAUSE/STEP during playback.
- To return to playback, press PLAY ► or press PAUSE/STEP again.

Moving to another Track CD MP3

- Press ◀◀ or ▶▶ briefly during playback to go to the next track or to return to the beginning of the current track.
- Press ◀◀ twice briefly to step back to the previous track.
- In case of audio CD, to go directly to any track, enter the track number using the numbered buttons (0-9) during playback.

3D Surround CD

This unit can produce a 3D Surround effect, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system.

- Press DISPLAY or AUDIO during playback.
- Use ◀▶ to select the sound icon.
The sound option will be highlighted.
- Use ▲▼ to select "NORM.", or "3D SUR".

Changing the Audio Channel CD

Press AUDIO repeatedly during playback to hear a different audio channel (STER., LEFT, or RIGHT).

Search CD MP3

- Press ◀◀ or ▶▶ during playback.
The player will now go into SEARCH mode.
- Press ◀◀ or ▶▶ repeatedly to select the required speed: ◀◀X2, ◀◀X4, ◀◀X8 (backward) or ▶▶X2, ▶▶X4, ▶▶X8 (forward).
Search speed and direction are indicated on the menu screen.
- To exit SEARCH mode, press PLAY ►.

Shuffle CD MP3

- Press SHUFFLE during playback or when playback is stopped.
The unit automatically begins Random Playback and "RAND." appears on the menu screen.
- To return to normal playback, press SHUFFLE.
"RAND." disappears on the menu screen.

Operation with JPEG Disc

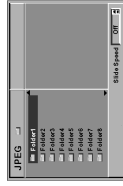
Viewing a JPEG disc

This DVD+VCR can play discs with JPEG files and Kodak picture CD. Before playing JPEG recordings, read the notes on JPEG Recordings on right.

- 1 Insert a disc and close the tray.**
The MP3-JPEG choice menu appears on the TV screen.



- 2 Use $\blacktriangle/\blacktriangledown$ to select the JPEG then press OK.**
The JPEG menu appears on the TV screen.



- 3 Use $\blacktriangle/\blacktriangledown$ to select a folder then press OK.**

A list of files in the folder appears.
Press RETURN to move to the MP3-JPEG choice menu.



Tip
If you are in a file list and want to return to the Folder list, use the $\blacktriangle/\blacktriangledown$ buttons on the remote to highlight " " and press OK to return to the previous menu screen.

- 4 If you want to view a particular file, press $\blacktriangle/\blacktriangledown$ to highlight a file and press OK or PLAY \blacktriangleright .**

Viewing the file proceeding starts.
During viewing a file, press RETURN to move to the previous menu (JPEG menu).
Press TITLE to move to the next page.
Press DISC MENU to move to the previous page.



Tip
There are three Viewing Slide Speed options: Fast, Normal, Slow and Off. Press $\blacktriangle/\blacktriangledown$ to highlight the Slide Speed then press $\blacktriangle/\blacktriangledown$ to select the option you want to use, and press OK.

- 5 To stop viewing at any other time, press STOP.**
The JPEG menu appears.

OPERATION

Moving to another File

Press $\blacktriangle/\blacktriangledown$ or $\blacktriangleright/\blacktriangleleft$ once during viewing a picture to advance to the next file or to the previous file.

Still Picture

- 1 Press PAUSE/STEP during slide show.
- 2 The player will now go into PAUSE mode.
To return to the slide show, press PLAY \blacktriangleright or press PAUSE/STEP again.

To flip the picture

Press $\blacktriangle/\blacktriangledown$ during showing a picture to flip the picture horizontally or a vertically.

To rotate picture

Press $\blacktriangle/\blacktriangledown$ during showing a picture to rotate the picture clockwise or counter clockwise.

Notes on JPEG Recordings

- Depending upon the size and number of the JPEG files, it could take a long time for the DVD+VCR to read the disc's contents. If you don't see an on-screen display after several minutes, some of the files are too big — reduce the resolution of the JPEG files to less than 2 mega pixels and burn another disc.
- Total number of files and folders on the disc should be less than 650.
- Some disc may be incompatible due to different recording format or condition of disc.
- When you are using software such as "Easy CD Creator" to burn the jpeg files into the CD-R, ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.
- If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" files.
- File names without ".jpg" extension will not be able to be read by this DVD+VCR. Even though the files are shown as JPEG image files in windows explorer.

Programmed Playback

MP3

VCD1.1

VCD2.0

CD

Programmed Playback with Audio CD and MP3 Disc

The Program function enables you to store your favorite tracks from any disc in the player memory. Program can contain 30 tracks.

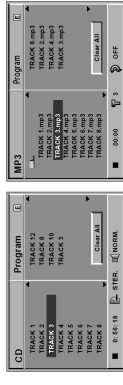
- 1 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode.**
The \square mark will appear to the right of the word Program on the right side of the menu screen.



Note
Press PROGRAM to exit the Program Edit mode; the \square mark will disappear.

- 2 Select a track, then press OK to place the selected track on the Program list.**

- 3 Repeat step 2 to place additional tracks on the Program list.**



Audio CD menu

MP3 menu

- 4 Press \blacktriangleright .**
The programmed track you selected last is highlighted on the program list.

- 5 Use $\blacktriangle/\blacktriangledown$ to select the track you want to start playing.**
Press TITLE to move to the next page.
Press DISC MENU to move to the previous page.

- 6 Press PLAY \blacktriangleright to start.**
Playback begins in the order in which you programmed the tracks and "PROG." appears on the menu screen. Playback stops after all of the tracks on the Program list have played once.

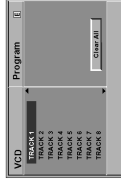
- 7 To resume normal playback from programmed playback, press PROGRAM to disappear the \square mark and then select a track of CD (or MP3) list and then press OK.**
"PROG." disappears on the menu screen.

Programmed Playback with Video CD



Note
On a Video CD with PBC, you must set PBC to Off on the setup menu to use the Program function. See page 18.

- 1 Insert Video CD and close the tray.**
- 2 Press PROGRAM while playback is stopped.**
The VCD Program menu will appear.



Note
Press RETURN or PROGRAM to exit the Program menu.

- 3 Follow steps 2-6 of "Programmed Playback with Audio CD and MP3 disc" on left.**

- 4 To resume normal playback from programmed playback, press PROGRAM.**
"NORMAL" appears on the TV screen.

Repeat Programmed Tracks

- To repeat the track currently playing, press REPEAT. The Repeat icon and "TRACK" appears on the menu screen.
- To repeat all tracks on the program list, press REPEAT a second time. The Repeat icon and "ALL" appears on the menu screen.
- To cancel Repeat mode, press REPEAT a third time. The Repeat icon and "OFF" appears on the menu screen.

Erasing a Track from Program List

- 1 Press PROGRAM during playback (Audio CD and MP3 disc only) or in the stop mode to enter the Program Edit mode.
The \square mark will appear.
- 2 Press \blacktriangleright to move to the Program list.
- 3 Use $\blacktriangle/\blacktriangledown$ to select the track that you wish to erase from the Program list.
- 4 Press CLEAR.
The track will be erased from the Program list.

Erasing the Complete Program List

- 1 Follow steps 1-2 of "Erasing a Track from Program List" as above.
- 2 Use $\blacktriangle/\blacktriangledown$ to select "Clear All", then press OK.
The complete Program for the disc will be erased.
The programs are also cleared when the disc is removed.

Additional Operation

On Screen Display

You may easily display the current time or tape counter, amount of tape left, day, month, year, day of week, programme channel, tape speed and operational mode of your VCR on the TV screen. If a recording is taking place these On Screen Displays will not be recorded onto the tape.

1 Press **DISPLAY** to display.
Press **DISPLAY** repeatedly to cycle through the display options. The tape counter and amount of tape left will appear if there is a tape loaded.

2 After 3 seconds the majority of the On Screen Displays will clear leaving only the clock or tape counter and the amount of tape left on the screen. Press **DISPLAY** again to remove all displays from the TV screen.

Tape Counter Memory Stop

The **Digital Tape Counter** can be displayed on the display window instead of the time by pressing **DISPLAY** on the remote control. The Digital Tape Counter indicates the relative positions of recordings on the tape.

1 Press **DISPLAY**
Press **CLEAR** to set the counter to 0:00:00.
Press **PLAY** ► or start recording.
The tape counter will display the actual play time in hours, minutes and seconds.

2 Press **STOP** ■ when playback or recording is complete.
Press **REW** ◀
The tape will rewind and automatically stop when the counter returns to 0:00:00.

Child Lock

The control buttons on the front of the VCR can be switched off so that your VCR can only be operated using the remote control.

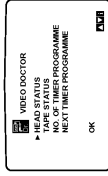
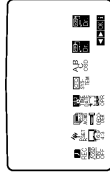
1 Press **C.LOCK**
On will appear in the display window.
None of the buttons on the front of your VCR will work (except **STOP** and **EJECT**).
If any buttons on the front of your unit are pressed **on** will flicker in the display window for a few seconds.

2 Press **C.LOCK** again to switch off the child lock.
On will disappear in the display window.

Video Doctor (Self-Diagnosis)

This feature informs you that there is a problem with your VCR. These error messages will appear on the TV screen.

1 Press **SYSTEM MENU**
Press ◀ or ► to select Dr.
Press **OK**.



2 Press ▲ or ▼ to check a problem.
HEAD STATUS
● **PLEASE CLEAN:**
Clean your video heads.

TAPE STATUS
● **NOT RECORDABLE:**
Insert a tape with its protection tab in place
NO. OF TIMER PROGRAMME
● 2
Shows the number of timer recording.
NEXT TIMER PROGRAMME
● **PR-01 26 10:00-11:00 SP**
Shows the current status of timer recording.
Press **SYSTEM MENU**.

Additional Operation (Continued)

Hi-Fi Stereo Sound System

Your VCR will record and playback Hi-Fi stereo sound. In addition it has a stereo NICAM digital stereo sound decoder. This allows you to record and playback the sound in several different ways. Video cassettes recorded on your VCR will have a normal mono audio track and two VHS Hi-Fi stereo audio tracks. These stereo tracks allow you to make audio recordings in Hi-Fi stereo or bilingual mode from a TV broadcast, stereo audio system, video disc or another Hi-Fi VCR.

1 Your VCR's NICAM digital sound decoder allows you to enjoy broadcasts with NICAM sound, as well as standard stereo, bilingual and mono sound. The particular type of sound received or that recorded will be briefly displayed on the TV screen for a couple of seconds:

STEREO NICAM

Sound is automatically recorded on the Hi-Fi stereo and mono tracks of the video tape.

BIL NICAM

Both audio channels will be recorded on the Hi-Fi stereo tracks. The primary language channel (left) will be recorded on the mono track of the video tape.

MONO

The sound is recorded on the Hi-Fi tracks and the mono track of the video tape without any separation.

2 Press **AUDIO** repeatedly until the desired audio mode appears.

3 The choice is **STEREO, LEFT, RIGHT and MONO**. In **BIL NICAM** playback the primary language is output on the left channel and the secondary channel is output simultaneously from the right channel when audio output is set to **STEREO**. The primary language will be output from both channels when the audio setting is **MONO**.
Please note that when adjusting the tracking control Hi-Fi stereo sound may revert to **MONO**.

Wide Screen Compatibility 16:9

Your VCR can record and play back wide screen aspect ratio programmes (16:9). To record a wide screen format programme successfully the correct type of wide screen signal must be broadcast by the TV station.

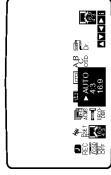
1 Switch on your VCR.
Press **SYSTEM MENU**.
Press ◀ or ► to select **16:9/4:3**.
Press **OK**.



2 Press ▲ or ▼ repeatedly to select: **AUTO, 4:3 or 16:9**.
AUTO:
Automatically plays back Wide-Screen programmes as Wide-Screen and Normal programmes as normal.

4:3
Only for playing back and recording Normal format recordings (4:3).

16:9:
Only for playing back and recording Wide-Screen format recordings (16:9).



3 Press **SYSTEM MENU** to remove the menus from the TV screen.
To enjoy Wide-Screen playback you must connect your VCR to the TV using a SCART cable.

To set the decoder

We have already described, how to connect a decoder for pay-TV station as **CANAL+** or **PREMIERE** on page 9. For the recording of an encoded station you do not have to control anything. You just select the station and wait shortly until the decoding will start.

1 Press **SYSTEM MENU**.
The main menu will appear on the TV screen.
Press ◀ or ► to select the **DECODER**.
Press **OK**.

2 Press ▲ or ▼ to select
ON: When the decoder is connected to the AV2 socket.
OFF: When another VCR is connected to the AV2 socket.
Press **SYSTEM MENU** to return to a TV picture.

Last Condition Memory DVD CD VCD1:1

This player memorizes the last condition for the last disc you have watched. Settings remain in memory even if you remove the disc from the player or switch off the player. If you load a disc that has its settings memorized, the latest stop position is automatically recalled.

Notes

- Settings are stored in memory for use any time.
- Settings does not memorize settings of a disc if you switch off the player before commencing to play it.

Special Recording

Copying from DVD To VCR

This unit allows you to copy the contents of a DVD to a VHS tape with a press of the DIRECT DUBBING button.



- If the DVD you are attempting to copy is copy protected, you may not be able to copy the disc.

1 Insert Disc

Insert the disc you wish to copy in the DVD deck and close the disc tray.

2 Insert VHS Tape

Insert a blank VHS videotape into the VCR deck.

3 Copy the DVD to VHS Tape

Press the DIRECT DUBBING button on the unit front panel.

- The DVD will go into Play mode and the VCR will go into Record mode.
- If the DVD disc menu appears, you may need to press the Play button manually to begin copying.

4 Stop the Copy Process.

When the DVD is finished playing, press the STOP button twice within 5 seconds to end the copy.

- You must stop the Copy process manually when the DVD movie ends, or the unit may replay and record over and over again.

Recording from another video recorder

With this video recorder you can make recordings from an external source, such as copying from another video recorder or a camcorder.



In the following description, this video recorder will be one used for recording and will be referred to as VCR B. The other appliance will be used for playback and will be referred to as VCR A.

1 VCR A should be connected to the SCART socket on the rear panel of your unit or the AV sockets on the front panel of your unit.

2 Insert the recorded tape into VCR A and a blank tape into VCR B.

3 To start recording, press the **RECORD** on VCR B and **PLAY** ► on VCR A.

4 When you want to finish copying, press the **STOP** ■ on both video recorders. Press STOP twice within 5 seconds at this unit.

OPERATION

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

Symptom	Cause	Correction
DVD or VCR do not work properly.	• DVD or VCR button is not switched properly.	• Refer to page 5.
No power.	• The power cord is disconnected.	• Plug the power cord into the wall outlet securely.
The power is on, but the DVD player does not work.	• No disc is inserted.	• Insert a disc. (Check that the DVD or, audio CD indicator in the display window is lit.)
No picture.	• The TV is not set to receive DVD signal output.	• Select the appropriate video input mode on the TV so the picture from the DVD player appears on the TV screen.
	• The video cable is not connected securely.	• Connect the video cable into the jacks securely.
No sound.	• The equipment connected with the audio cable is not set to receive DVD signal output.	• Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player.
	• The audio cables are not connected securely.	• Connect the audio cable into the jacks securely.
	• The power of the equipment connected with the audio cable is turned off.	• Turn on the equipment connected with the audio cable.
	• The Digital Audio Output is set to the wrong position.	• Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing POWER.
The picture is poor.	• The disc is dirty.	• Clean the disc.
	• The TV channels are not tuned in properly.	• Check tuning, carry out tuning again.
The DVD player does not start playback.	• An unplayable disc is inserted.	• Insert a playable disc. (Check the disc type and Regional code.)
	• The disc is placed upside down.	• Place the disc with the playback side down.
	• The disc is not placed within the guide.	• Place the disc on the disc tray correctly inside the guide.
	• The disc is dirty.	• Clean the disc.
	• The Rating level is set.	• Cancel the Rating function or change the rating level.
The remote control does not work properly.	• There is an obstacle in the path of the remote control and this unit.	• Remove the obstacle.
	• The batteries in the remote control are exhausted.	• Replace the batteries with new ones.
Video tape cannot be inserted.	• Is the cassette compartment empty?	• Eject the tape in.
No Hi-Fi sound	• Audio mode is not set properly.	• Select "STEREO" by repeatedly pressing "AUDIO" on the remote control.

Video Head Cleaning

Dirt accumulating on the head after a long period of time can cause the playback picture to become blurred or broken up. High quality video cassette tapes will not normally deposit dirt onto the video head, but old or damaged tapes might. Clean the video heads with a commercially available video heads cleaning tape.

Language Code List

Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See page 17).

Code	Language	Code	Language	Code	Language
6566	Abkhazian	7074	Fiji	7678	Lingala
6565	Afar	7073	Finnish	7684	Lithuanian
6570	Afrikaans	7082	French	7775	Macedonian
8381	Albanian	7089	Frisian	7771	Malagasy
6577	Anehaŋic	7176	Galician	7783	Malay
6582	Arabic	7565	Georgian	7776	Malayalam
7289	Armenian	6969	German	7784	Maltese
6583	Assamese	6976	Greek	7773	Maori
6588	Aynara	7576	Greenlandic	7782	Marathi
6590	Azerbaijani	7178	Guarani	7779	Moldavian
6665	Bashkir	7185	Gujarati	7778	Mongolian
6985	Basque	7265	Hausa	7865	Nauru
6678	Bengali; Bangla	7387	Hebrew	7869	Nepali
6890	Bhutani	7273	Hindi	7879	Norwegian
6672	Bihari	7285	Hungarian	7982	Oriya
6682	Breton	7383	Icelandic	8065	Panjabi
6671	Bulgarian	7378	Indonesian	8083	Pashto, Pushto
7789	Burmese	7365	Interlingua	7065	Persian
6669	Byelorussian	7165	Irish	8076	Polish
7577	Cambodian	7384	Italian	8084	Portuguese
6765	Catalan	7465	Japanese	8185	Quechua
9072	Chinese	7487	Javanese	8277	Rhaeto-Romanche
6779	Corsican	7578	Kannada	8279	Rumanian
7282	Croatian	7583	Kashmiri	8285	Russian
6783	Czech	7575	Kazakh	8375	Samoan
6865	Danish	7589	Kirghiz	8365	Sanskrit
7876	Dutch	7579	Korean	7168	Scots Gaelic
6978	English	7585	Kurdish	8382	Serbian
6979	Esperanto	7679	Laotian	8372	Serbo-Croatian
6984	Estonian	7665	Latin	8378	Shona
7079	Faroese	7686	Latvian, Lettish	8368	Sindhi

OPERATION

Country/Area Code List

Enter the appropriate code number for the initial setting "Area Code" (See page 19).

Code	Country/Area	Code	Country/Area	Code	Country/Area
AD	Andorra	ER	Eritrea	LC	Saint Lucia
AE	United Arab Emirates	ES	Spain	LI	Liechtenstein
AF	Afghanistan	ET	Ethiopia	LK	Sri Lanka
AG	Antigua and Barbuda	FI	Finland	LR	Liberia
AI	Anguilla	FJ	Fiji	LS	Lesotho
AL	Albania	FK	Falkland Islands	LT	Lithuania
AM	Armenia	FM	Micronesia	LU	Luxembourg
AN	Netherlands Antilles	FO	Faeroe Islands	LV	Latvia
AO	Angola	FR	France	LY	Libya
AQ	Antarctica	FX	France (European Territory)	MA	Morocco
AR	Argentina	GA	Gabon	MC	Monaco
AS	American Samoa	GB	Great Britain	MD	Moldavia
AT	Austria	GD	Grenada	MG	Madagascar
AU	Australia	GE	Georgia	MH	Marshall Islands
AW	Aruba	GF	French Guyana	MK	Macedonia
AZ	Azerbaijan	GH	Ghana	ML	Mali
BA	Bosnia-Herzegovina	GI	Gibraltar	MM	Myanmar
BB	Barbados	GL	Greenland	MN	Mongolia
BD	Bangladesh	GM	Gambia	MO	Macao
BE	Belgium	GN	Guinea	MP	Northern Mariana Islands
BF	Burkina Faso	GP	Guadeloupe (French)	MQ	Martinique (French)
BG	Bulgaria	GQ	Equatorial Guinea	MR	Mauritania
BH	Bahrain	GR	Greece	MS	Montserrat
BI	Burundi	GS	S. Georgia & S. Sandwich Isls.	MT	Malta
BJ	Benin	GT	Guatemala	MU	Mauritius
BM	Bermuda	GU	Guam (USA)	MV	Maldives
BN	Brunei Darussalam	GW	Guinea Bissau	MW	Malawi
BO	Bolivia	GY	Guyana	MX	Mexico
BR	Brazil	HK	Hong Kong	MY	Malaysia
BS	Bahamas	HM	Heard and McDonald Islands	MZ	Mozambique
BT	Bhutan	HN	Honduras	NA	Namibia
BV	Bouvet Island	HR	Croatia	NC	New Caledonia (French)
BW	Botswana	HT	Haiti	NE	Niger
BY	Belarus	HU	Hungary	NF	Norfolk Island
BZ	Belize	ID	Indonesia	NG	Nigeria
CA	Canada	IE	Ireland	NI	Nicaragua
CC	Cocos (Keeling) Islands	IL	Israel	NL	Netherlands
CF	Central African Republic	IN	India	NO	Norway
CG	Congo	IO	British Indian Ocean Territory	NP	Nepal
CH	Switzerland	IQ	Iraq	NR	Nauru
CI	Ivory Coast	IR	Iran	NU	Niue
CK	Cook Islands	IS	Iceland	NZ	New Zealand
CL	Chile	IT	Italy	OM	Oman
CM	Cameroon	JM	Jamaica	PA	Panama
CN	China	JO	Jordan	PE	Peru
CO	Colombia	KP	North Korea	PF	Polynesia (French)
CR	Costa Rica	KR	South Korea	PG	Papua New Guinea
CS	Former Czechoslovakia	KW	Kuwait	PH	Philippines
CU	Cuba	KE	Kenya	PK	Pakistan
CV	Cape Verde	KH	Kyrgyzstan	PL	Poland
CX	Christmas Island	KI	Kiribati	PN	Saint Pierre and Miquelon
CY	Cyprus	KM	Comoros	PR	Puerto Rico
CZ	Czech Republic	KN	Saint Kitts & Nevis Anguilla	PT	Portugal
DE	Germany	DN	Denmark	PW	Palau
DJ	Djibouti	DM	Dominica	PY	Paraguay
DK	Denmark	DO	Dominican Republic	QA	Qatar
DM	Dominica	DZ	Algeria	RE	Reunion (French)
DO	Dominican Republic	EC	Ecuador	RO	Romania
DZ	Algeria	EE	Estonia	RU	Russian Federation
EC	Ecuador	EG	Egypt	RW	Rwanda
EE	Estonia	EH	Western Sahara	SA	Saudi Arabia
EG	Egypt	LB	Lebanon	SB	Solomon Islands

Specification

General

Power requirements	AC 220-230V, 50Hz
Power consumption	23W
Dimensions (approx.)	430 X 97.5 X 293 mm (w/h/d)
Mass (approx.)	4.8 kg
Operating temperature	5°C to 35°C (41°F to 95°F)
Operating humidity	5 % to 90 %
Timer	24 hours display type

System

Laser	Semiconductor laser, wavelength 650 nm
Video Head system	Double azimuth 6 heads, helical scanning.
Signal system	PAL
Frequency response	DVD (PCM 96 kHz): 8 Hz to 44 kHz DVD (PCM 48 kHz): 8 Hz to 22 kHz CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 100 dB (DVD) More than 95 dB (CD)

Inputs (VCR)

Audio	-6.0dBm, more than 10 kohms (SCART) -6.0dBm, more than 47 kohms (RCA)
Video	1.0 Vp-p, 75 ohms, unbalanced (SCART/RCA)

Outputs (DVD)

Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
Audio output (analog audio)	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 2

Outputs (VCR)

Audio	-6.0dBm, less than 1 kohms (SCART)
Video	1.0Vp-p, 75 ohms, unbalanced (SCART)

- Design and specifications are subject to change without notice.

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"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Personal Notes:

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CABINET & MAIN CHASSIS

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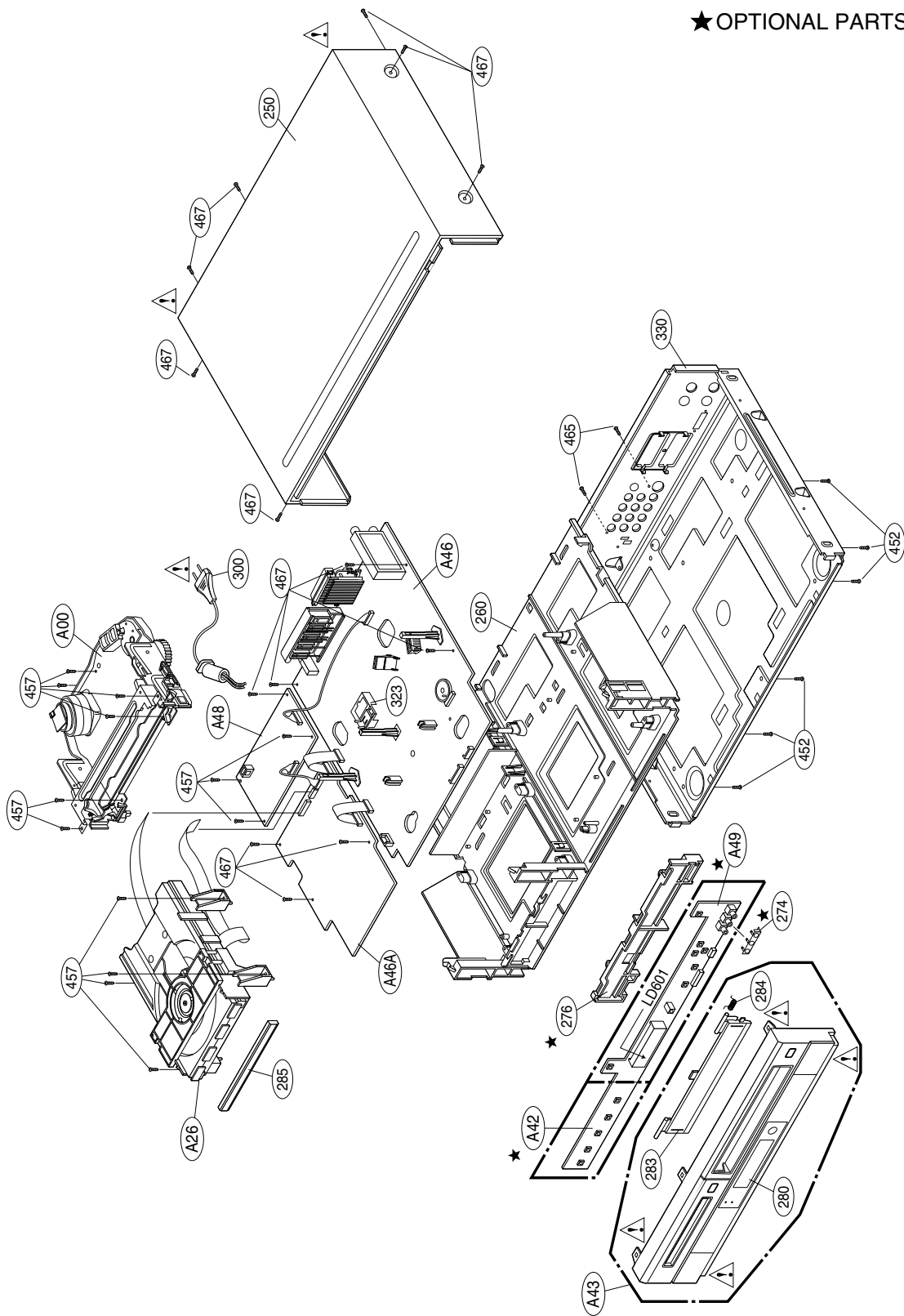
1. Cabinet and Main Frame Section2-2

2. Packing Accessory Section2-3

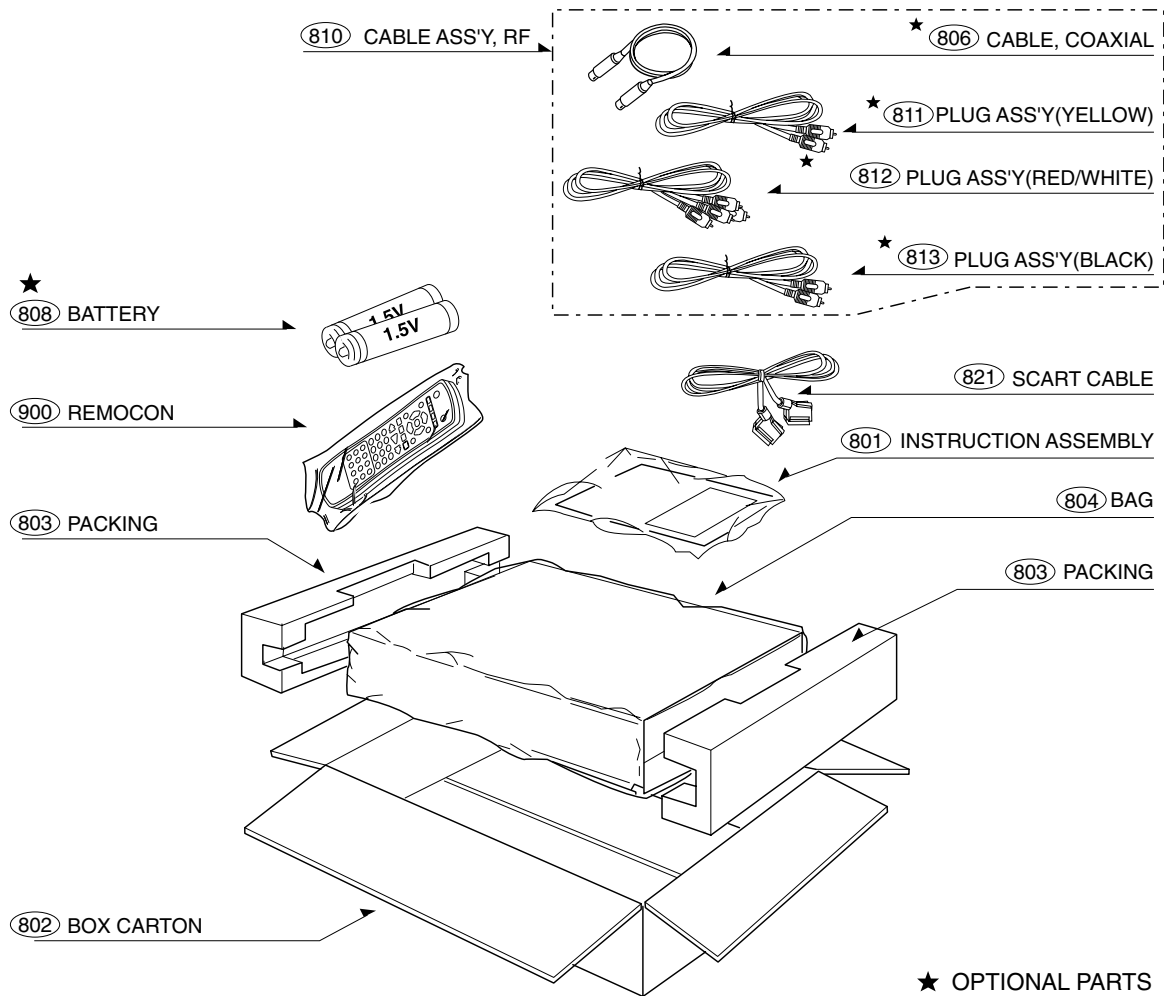
EXPLODED VIEWS

1. Cabinet and Main Frame Section

★ OPTIONAL PARTS



2. Packing Accessory Section



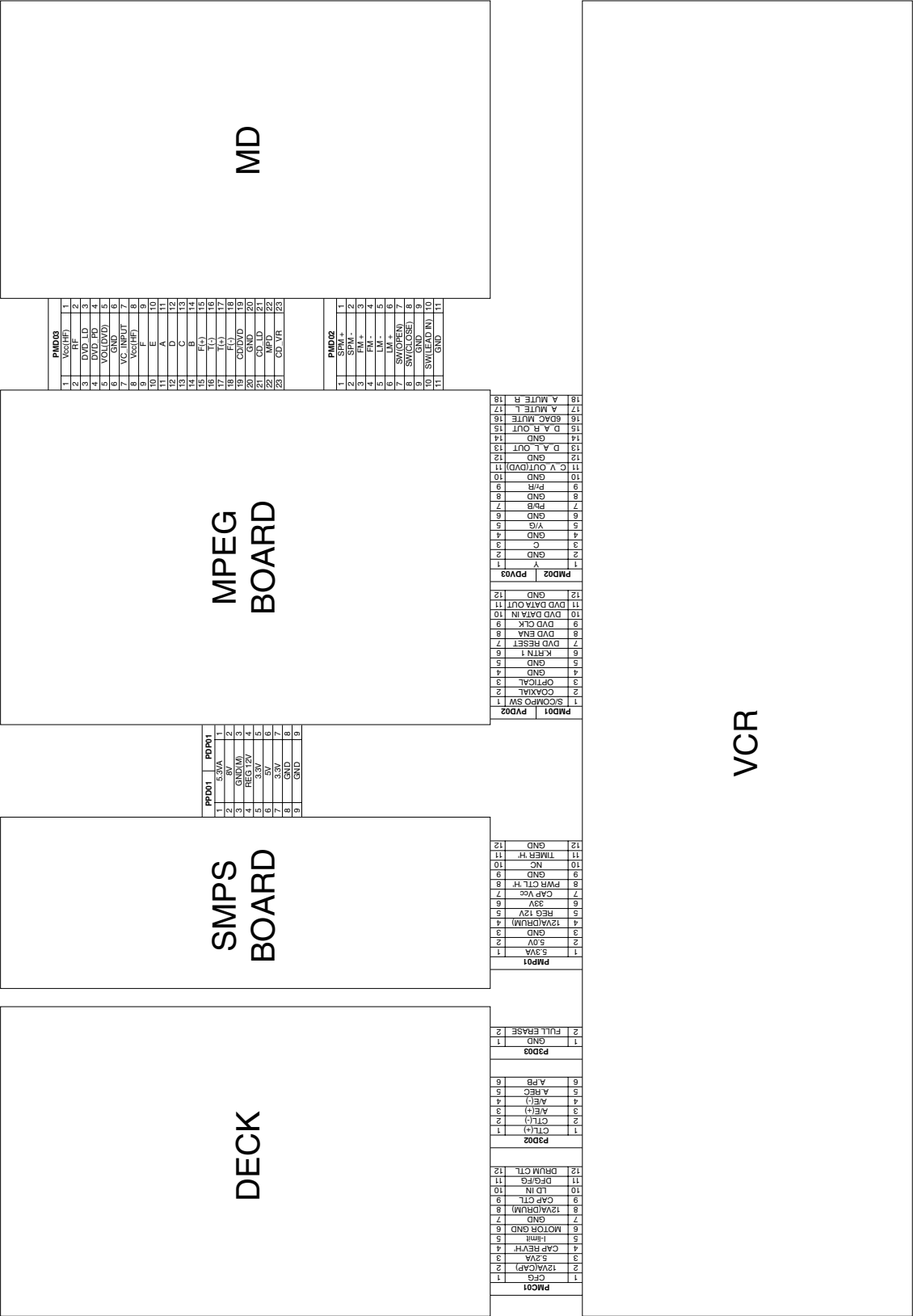
SECTION 3

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OVERALL WIRING DIAGRAM



VCR PART

ELECTRICAL ADJUSTMENT PROCEDURES

1. Servo Adjustment

- 1) PG Adjustment
 - Test Equipment

a) OSCILLOSCOPE

C) PAL MODEL : PAL SP TEST TAPE

b) NTSC MODEL : NTSC SP TEST TAPE

• Adjustment And Specification

MODE	MEASUREMENT POINT	ADJUSTMENT POINT	SPECIFICATION
PLAY	V.Out H/SW(JP05, JP06)	R/C TRK JIG KEY	$6.5 \pm 0.5H$

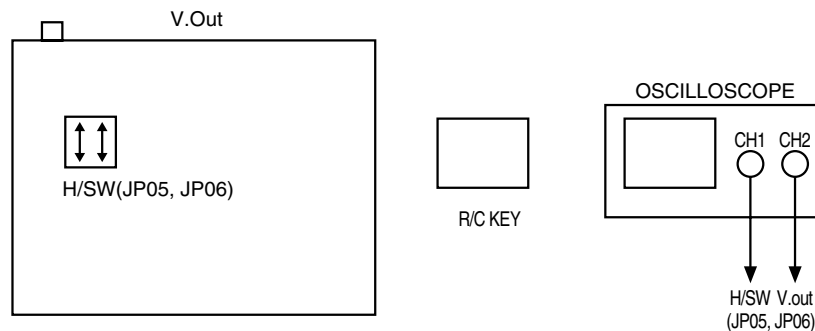
• Adjustment Procedure

- a) Insert the SP Test Tape and play.
Note - Adjust the distance of X, pressing the Tracking(+) or Tracking(-) when the “ATR” is blink after the SP Test Tape is inserted.
- b) Connect the CH1 of the oscilloscope to the H/SW(JP05, JP06) and CH2 to the Video Out for the VCR.
- c) Trigger the mixed Combo Video Signal of CH2 to the CH1 H/SW(JP05, JP06), and then check the distance (time difference), which is from the selected A(B) Head point of the H/SW(JP05, JP06) signal to the starting point of the vertical synchronized signal, to $6.5H \pm 0.5H$ ($412\mu s$, $1H=63\mu s$).

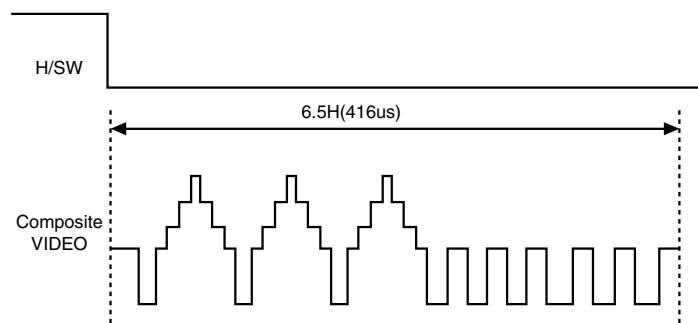
• PG Adjustment Method

- a-1) Playback the SP standard tape
- b-2) Press the “1” key on the Remote controller and the “PLAY” key on the Front Panel the same time, then it goes in to Tracking initial mode.
- c-3) Repeat the above step(No.b-2), then it finishes the PG adjusting automatically.
- d-4) Stop the playback, then it goes out to PG adjusting mode after many the PG data.

• CONNECTION



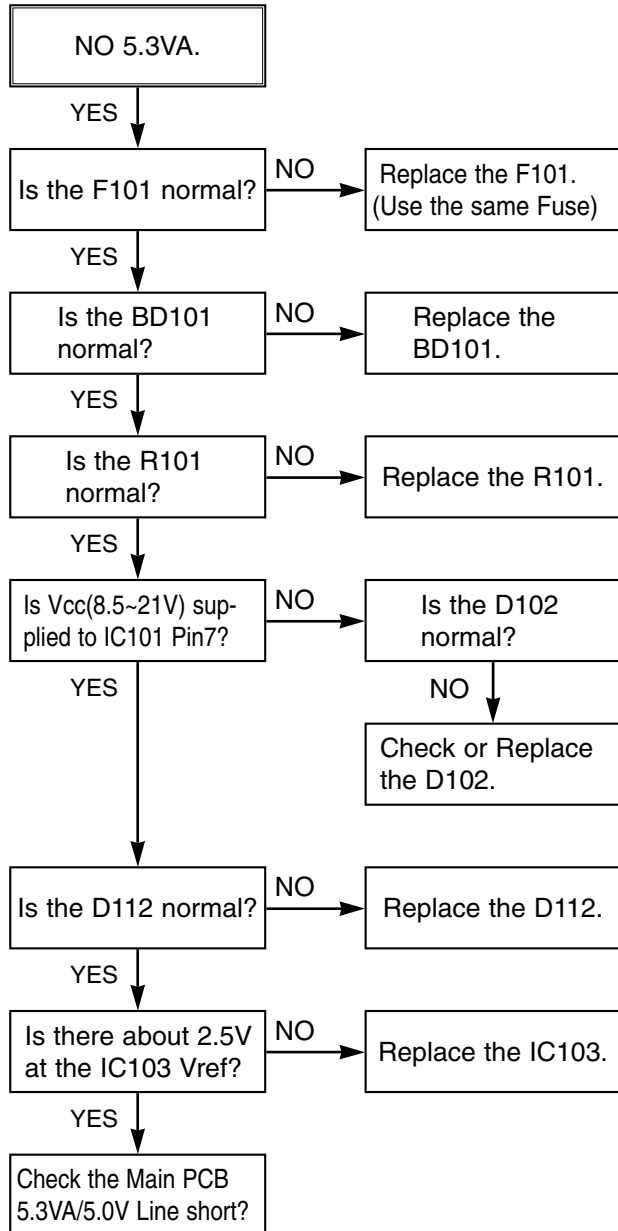
• WAVEFORM



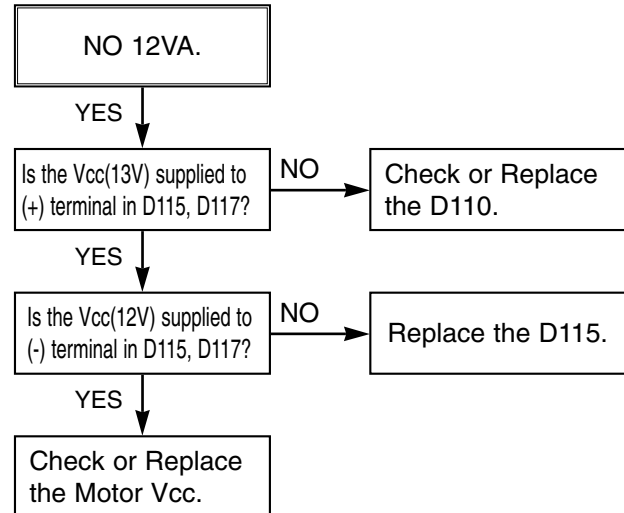
ELECTRICAL TROUBLESHOOTING GUIDE

1. Power(SMPS) CIRCUIT

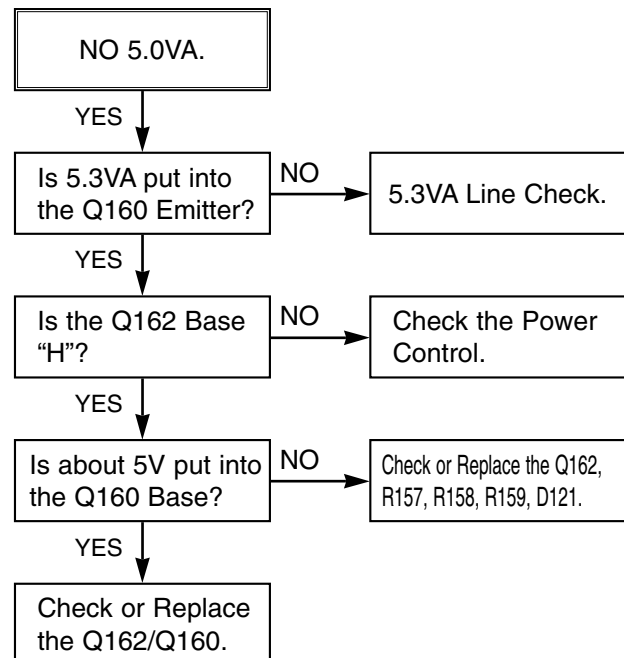
(1) No 5.3VA (SYS/Hi-Fi/TUNER)



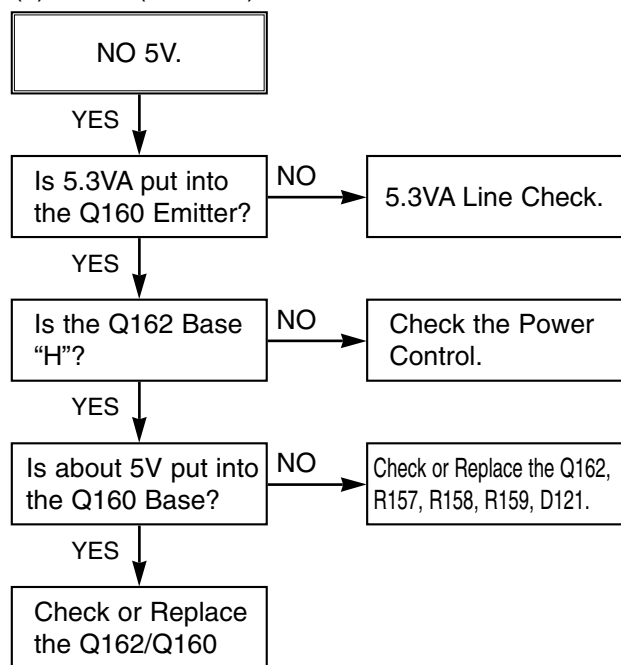
(2) No 12VA (TO CAP, DRUM MOTOR)



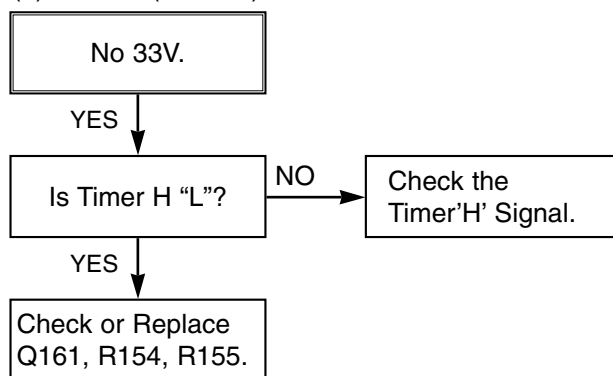
(3) No 5.0V (SYS/Hi-Fi/TUNER)



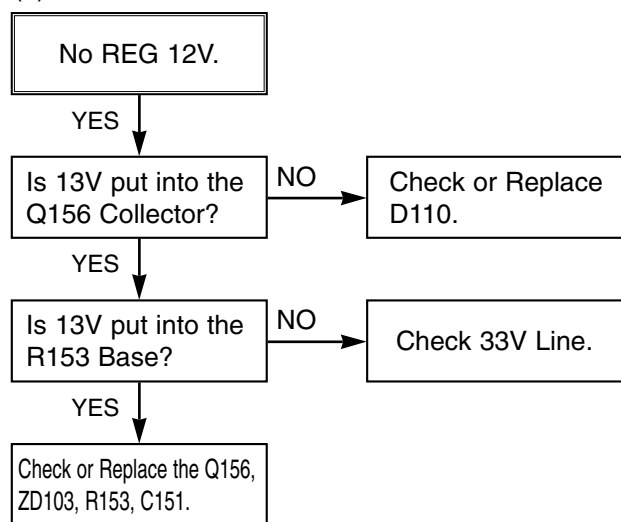
(4) No 5V (TO DVD)



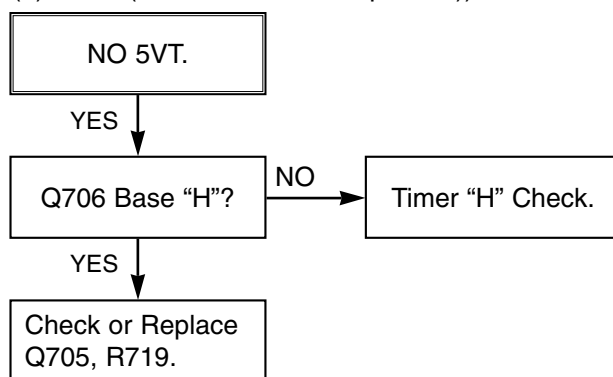
(5) No 33V (TUNER)



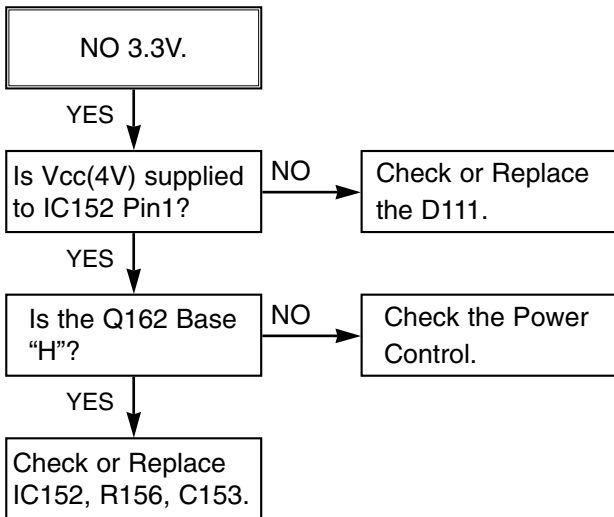
(6) No REG 12V



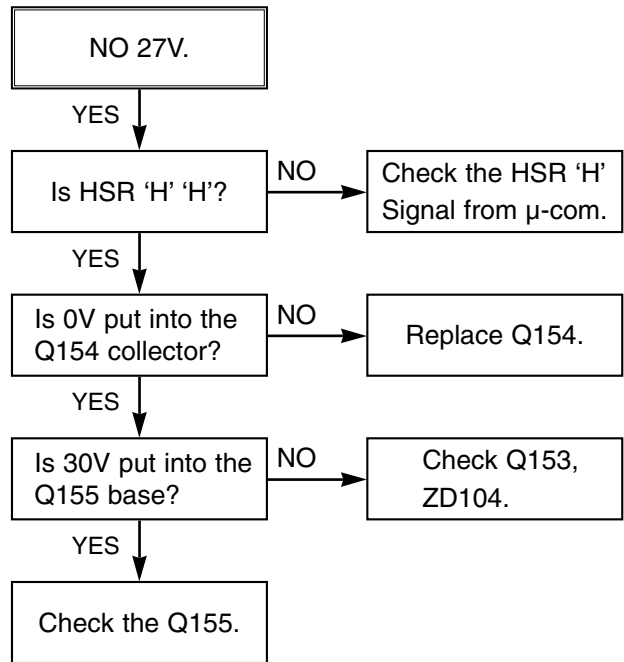
(7) No 5V(TO TUNER, AVCP, μ -COM))



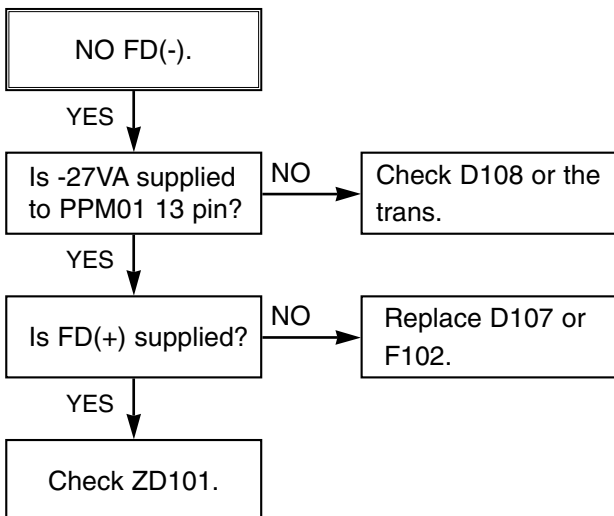
(8) No 3.3V(TO DVD)



(9) No 27V(TO CAP)

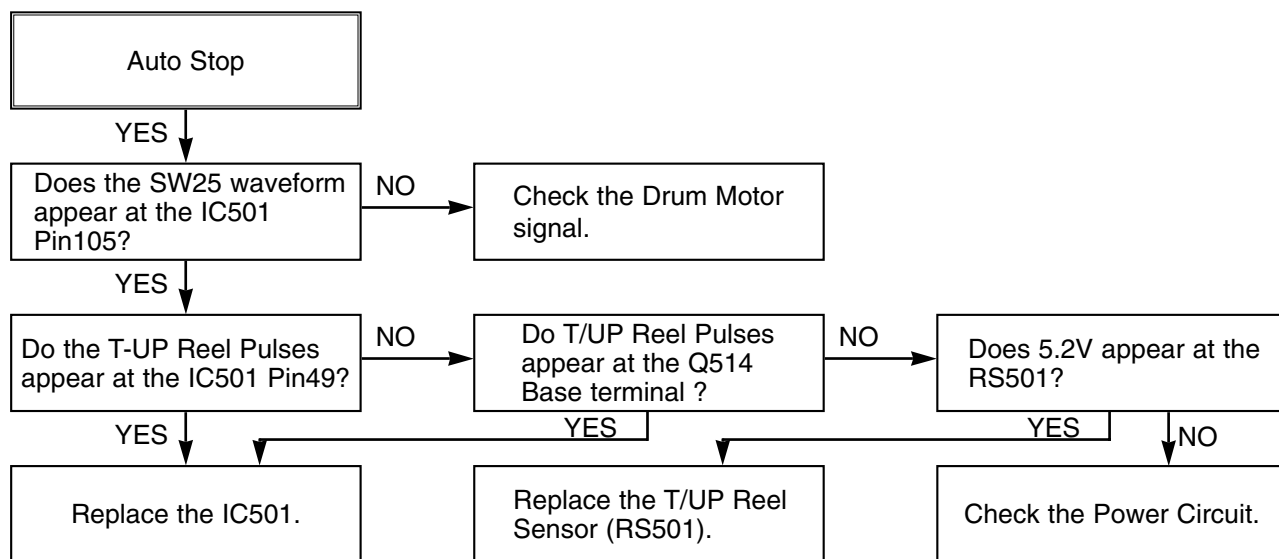


(10) -27VA, FD(-), FD(+)

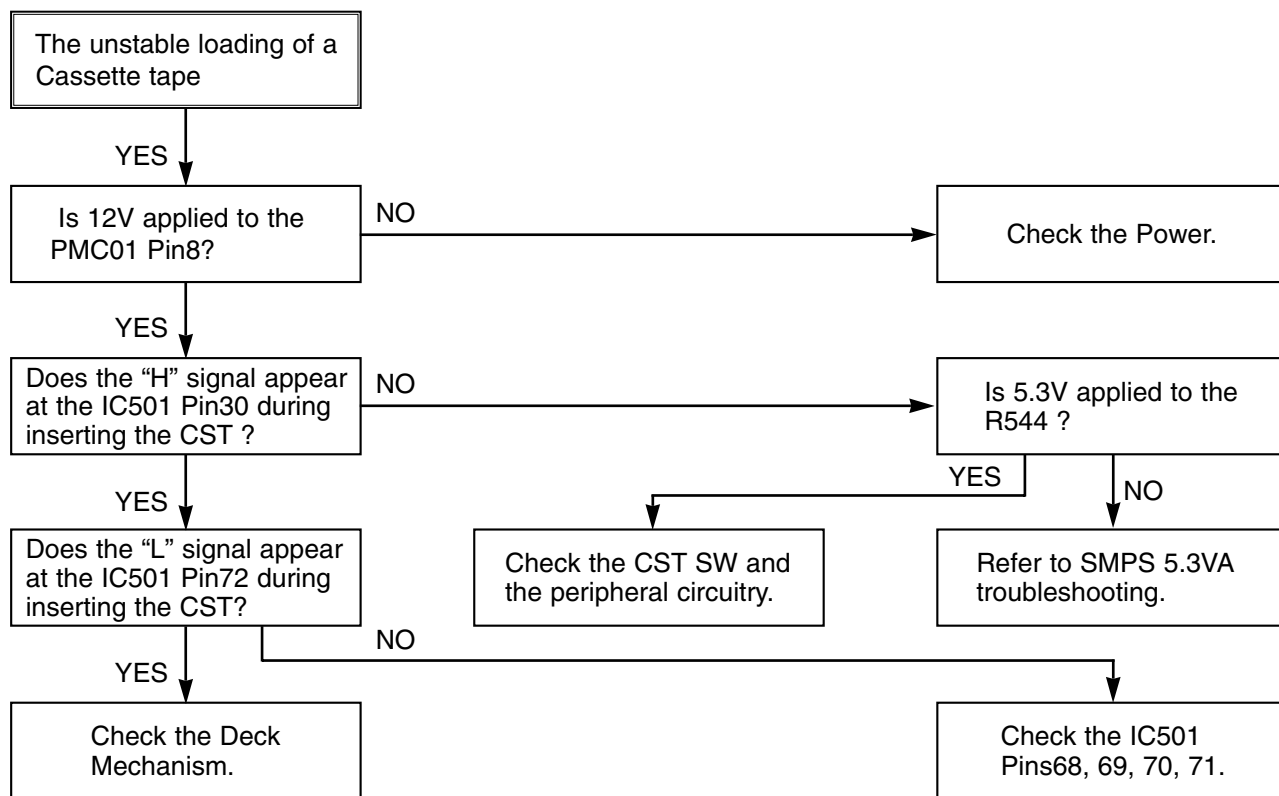


2. SYSTEM/KEY CIRCUIT

(1) AUTO STOP



(2) The unstable loading of a Cassette tape

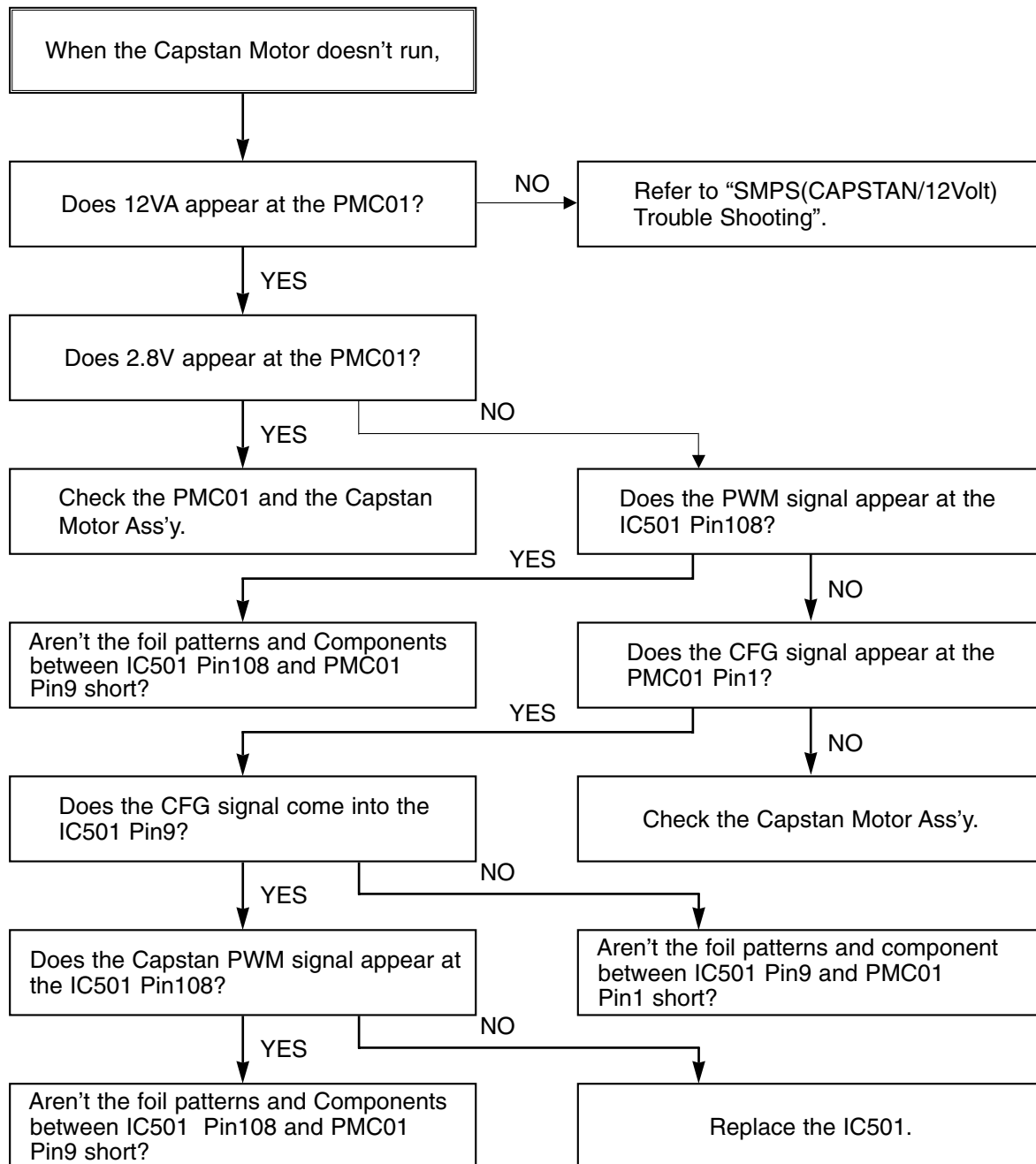


Caution : Auto stop can occur because Grease or Oil is dried up

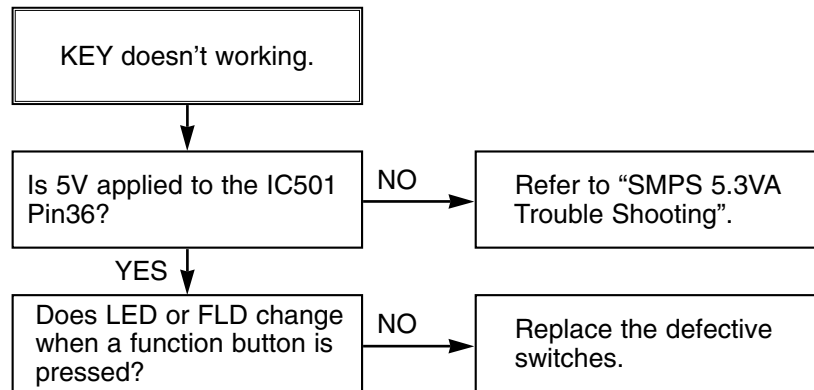
(1) Unstable Video in PB MODE



(3) When the Capstan Motor doesn't run,

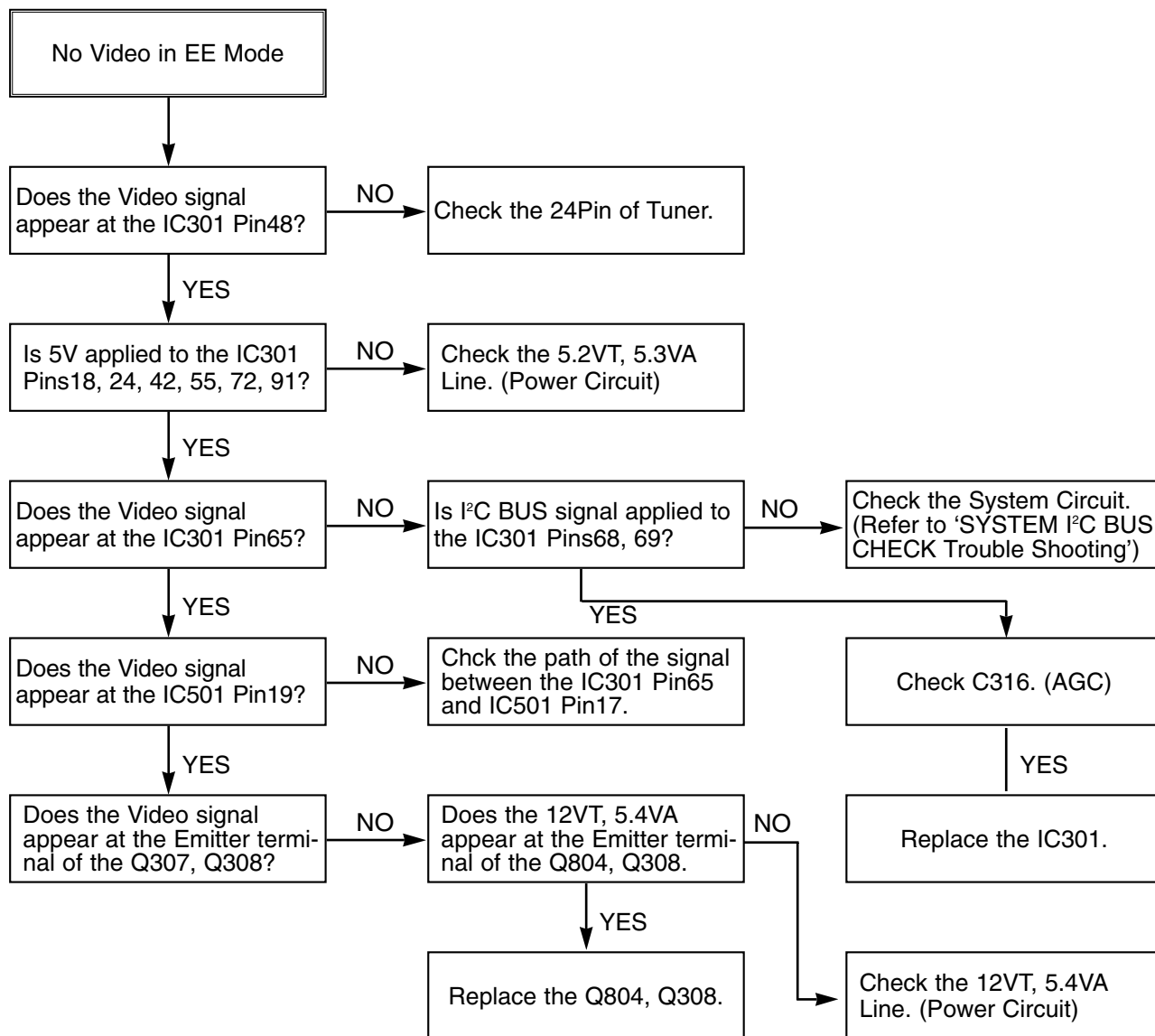


(4) KEY doesn't working

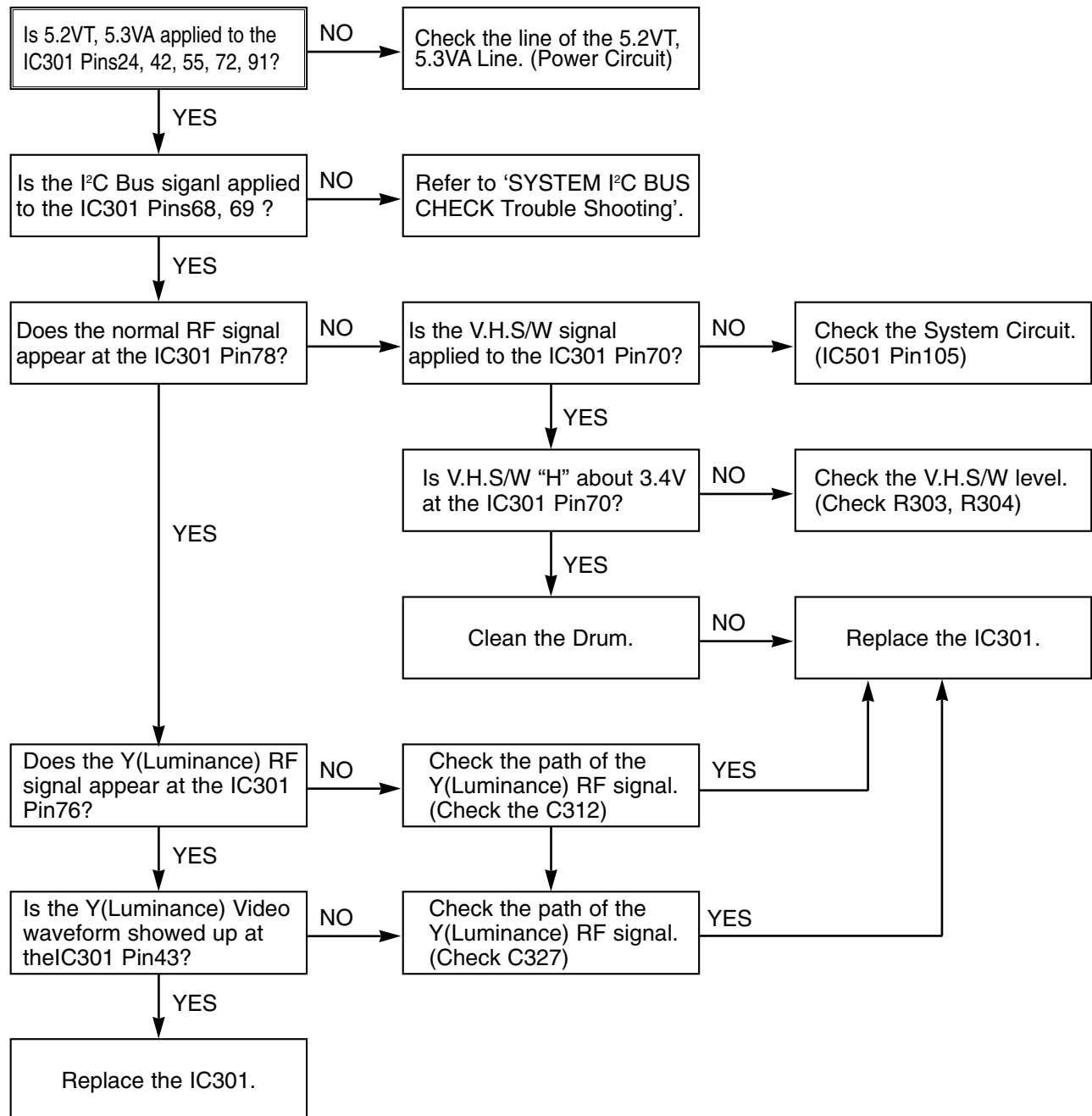


4. Y/C CIRCUIT

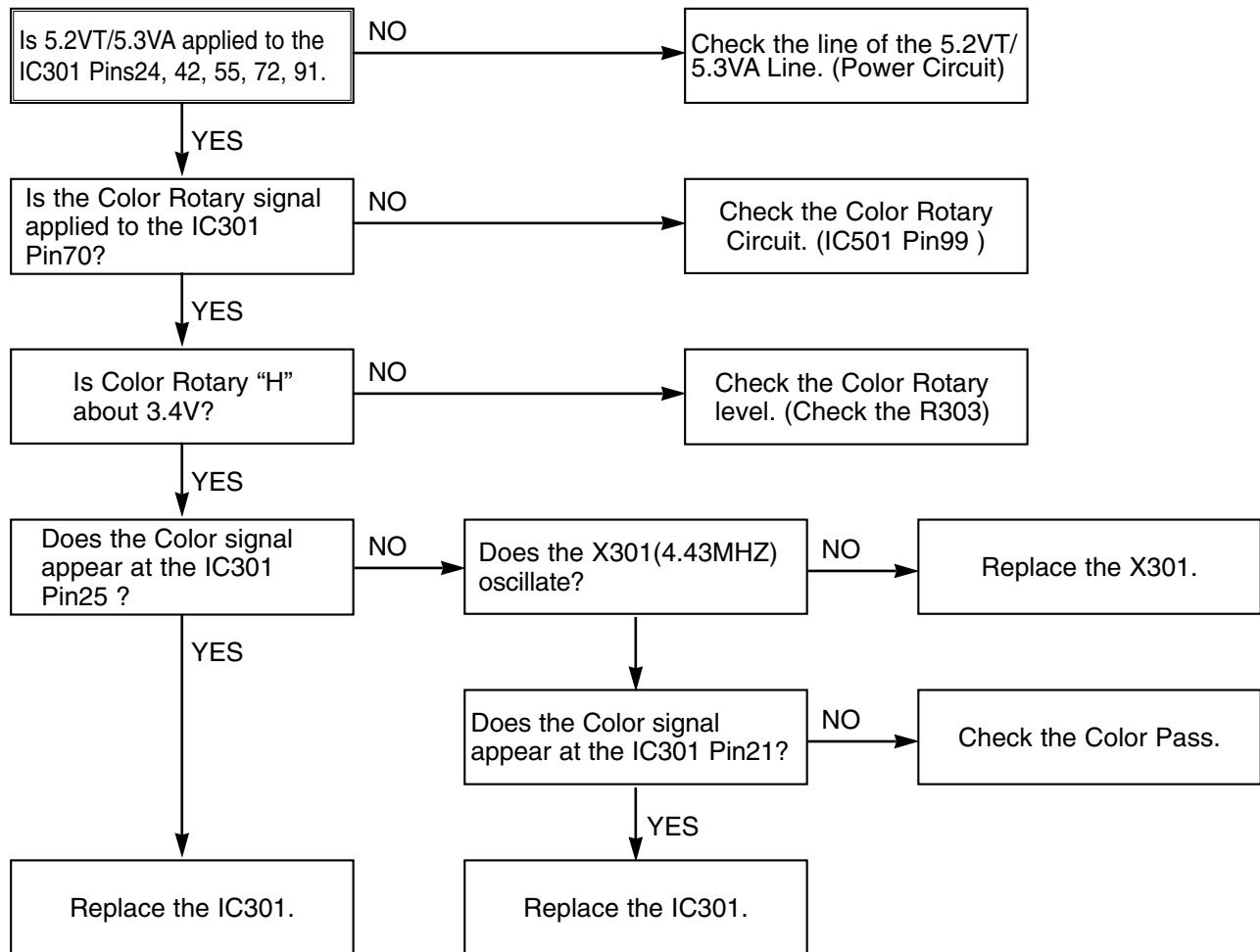
(1) No Video in EE Mode,



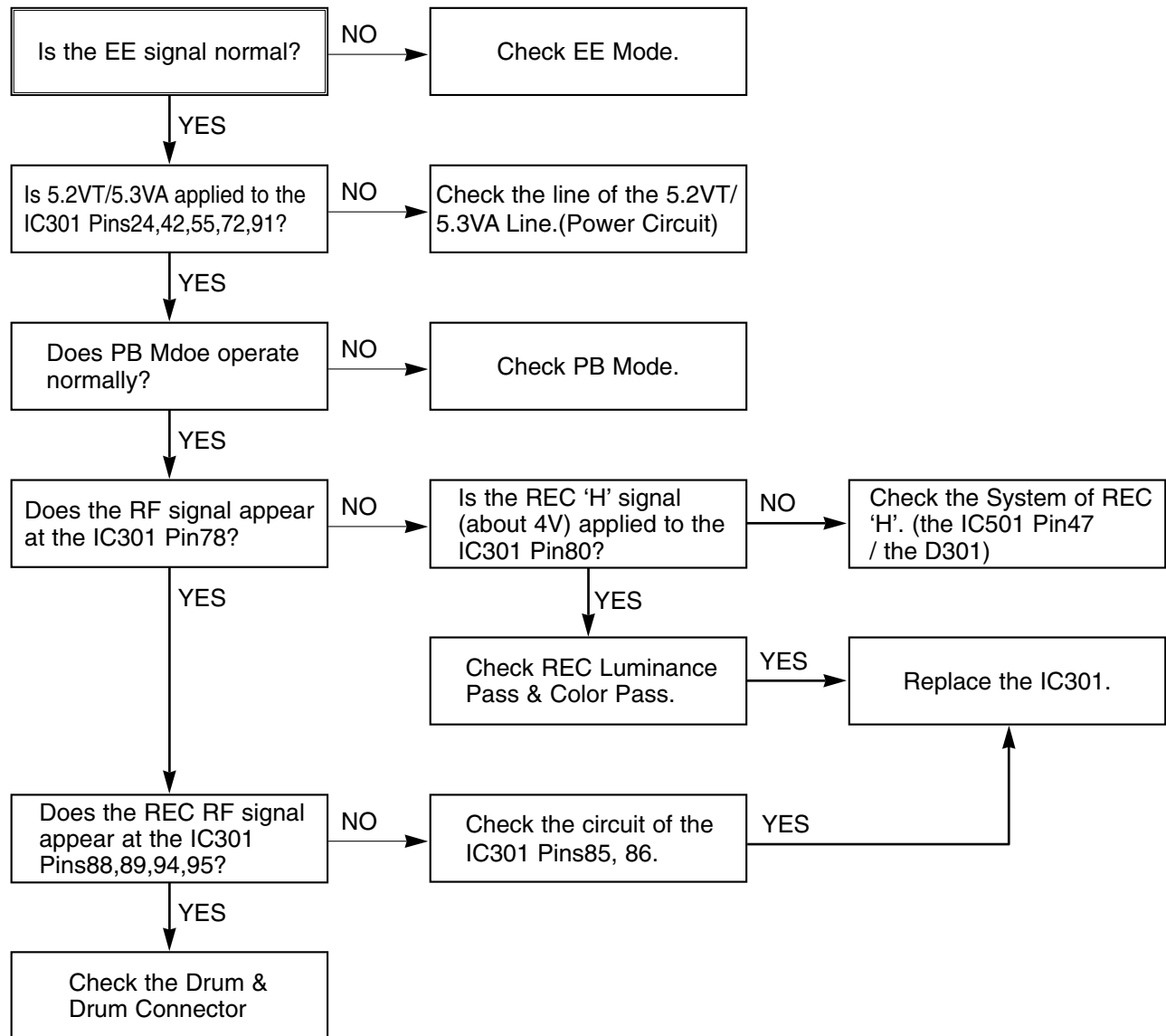
(2) When the Y(Luminance) signal doesn't appear on the screen in PB Mode,



(3) When the C(Color) signal doesn't appear on the screen in PB Mode,

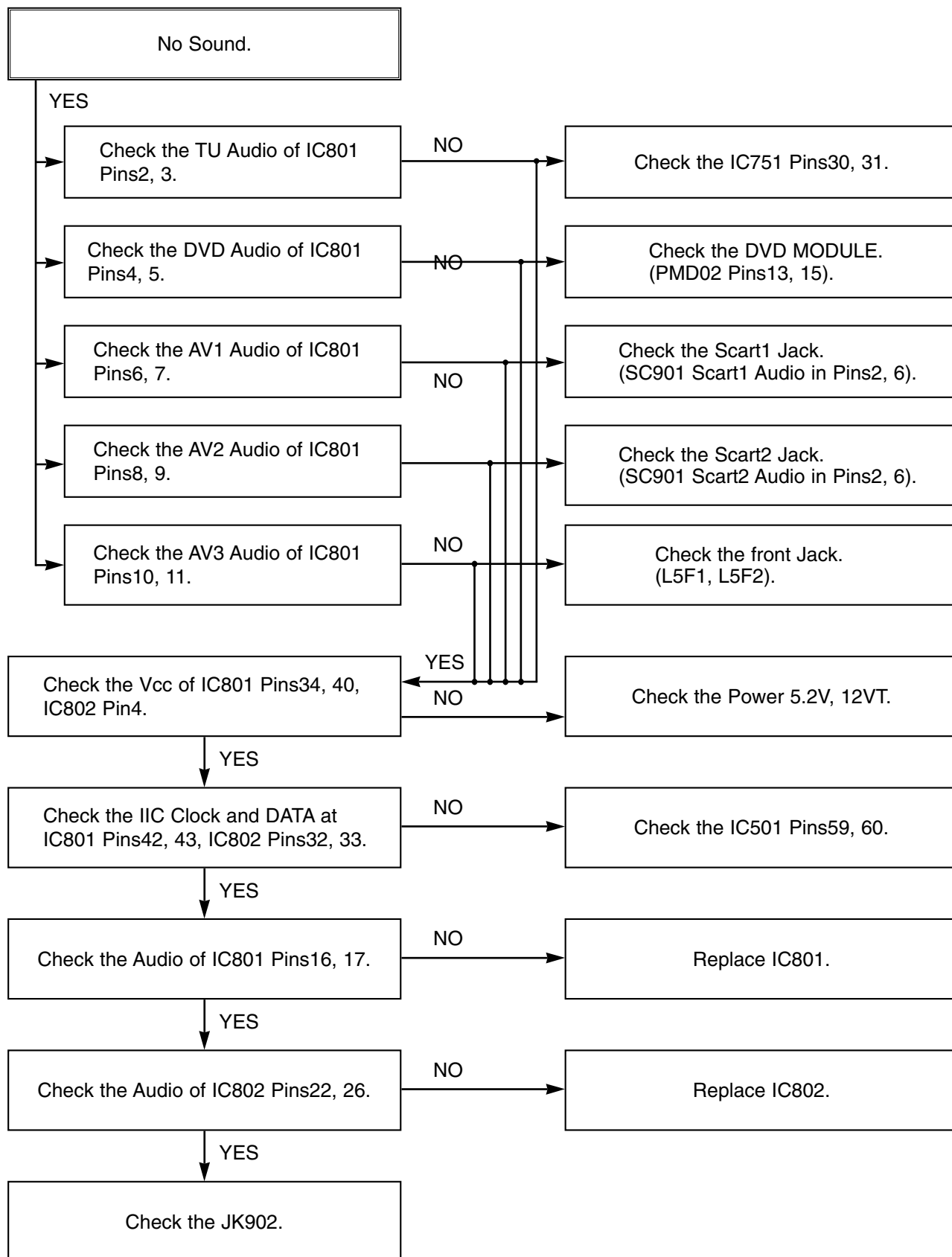


(4) When the Video signal doesn't appear on the screen in REC Mode,

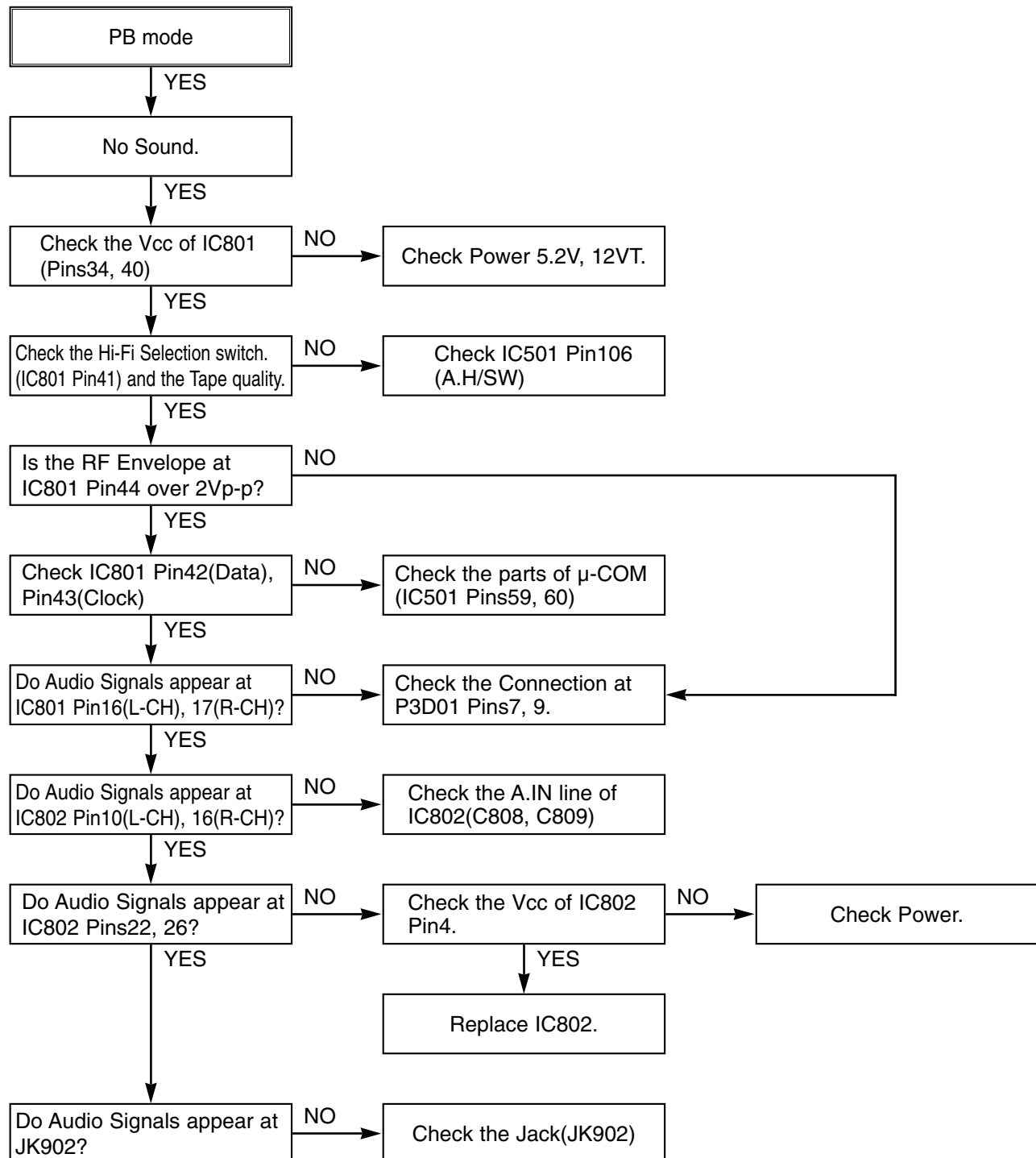


5. Hi-Fi CIRCUIT

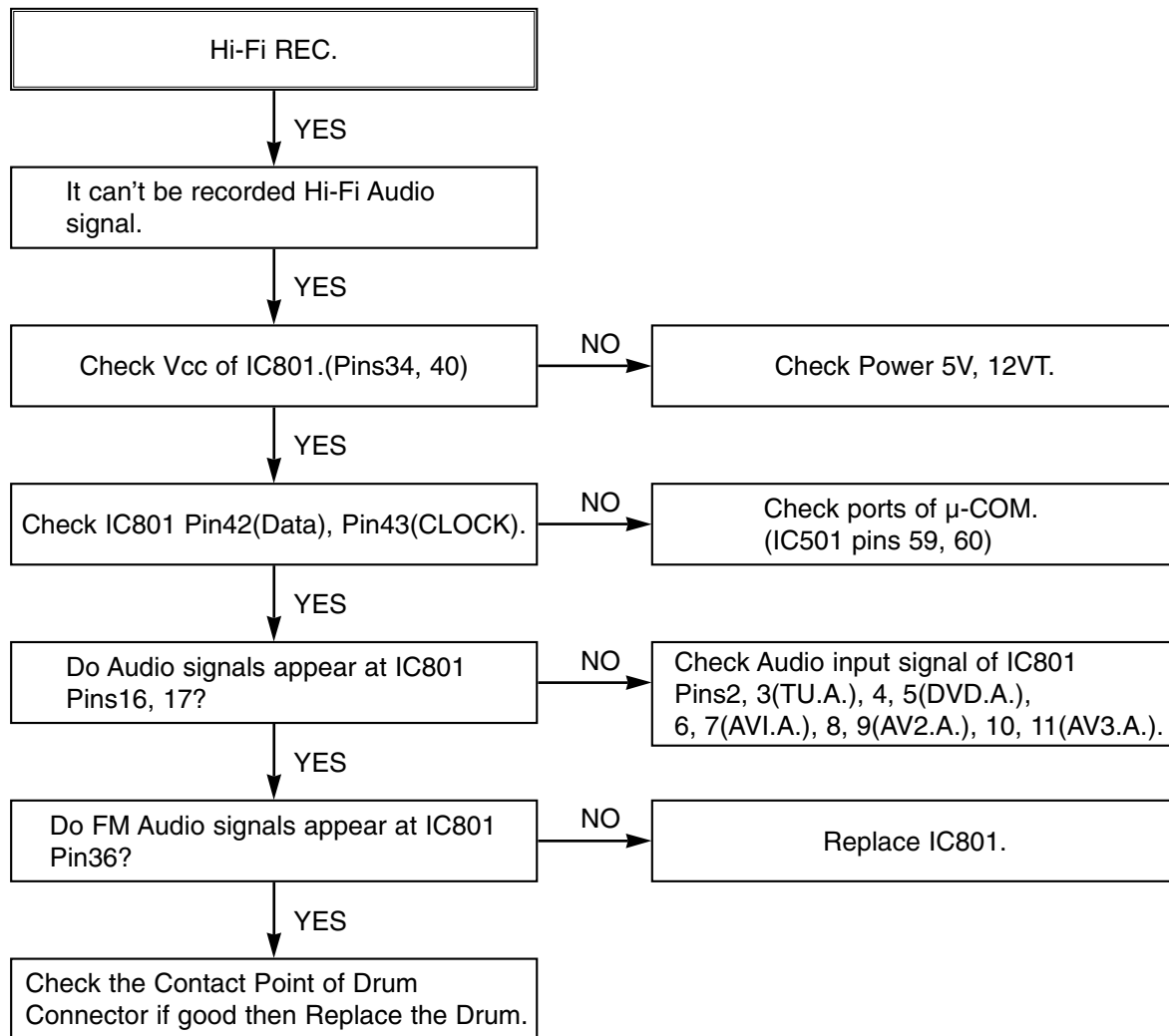
(A) No Sound(EE Mode)



(B) Hi-Fi Playback

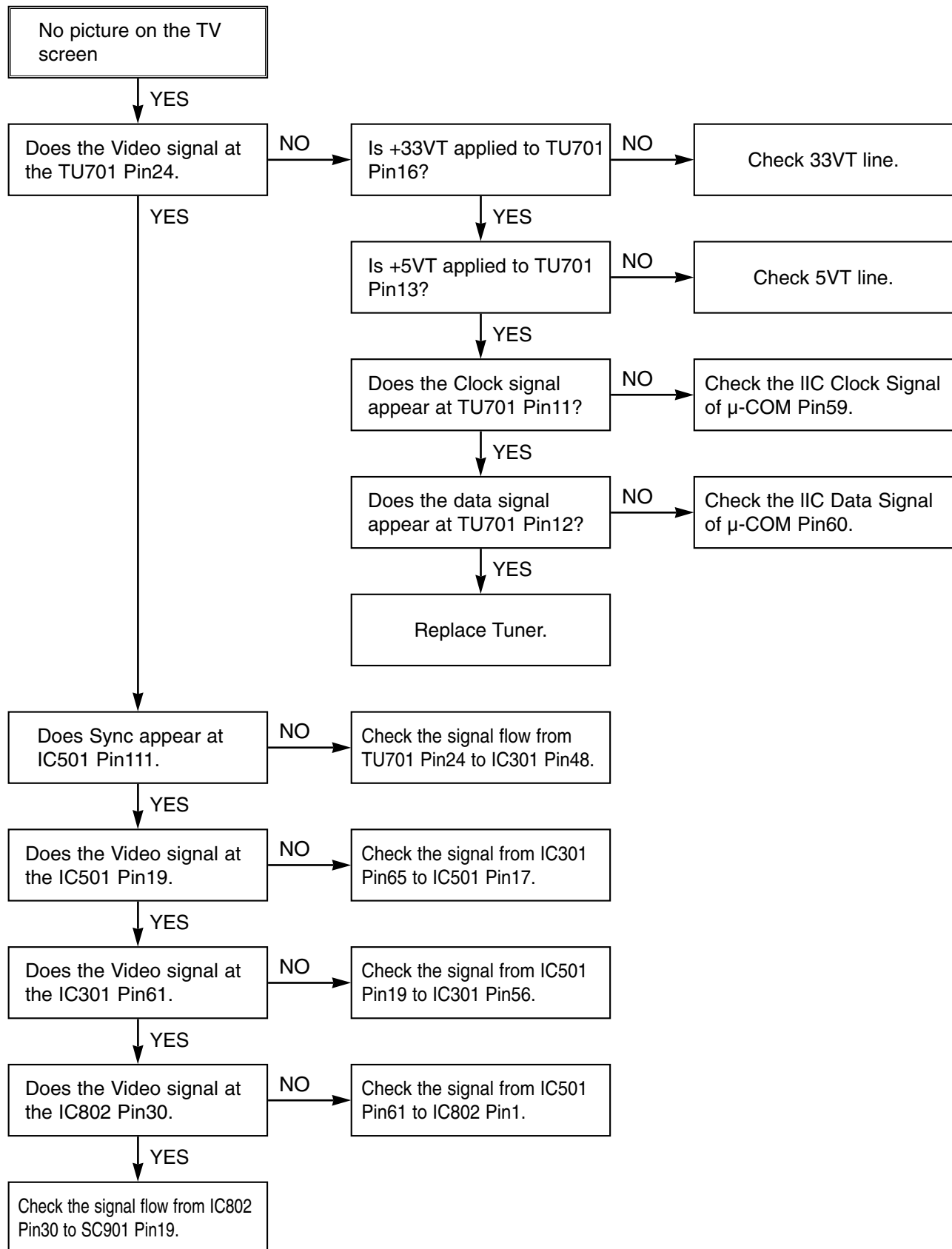


(C)

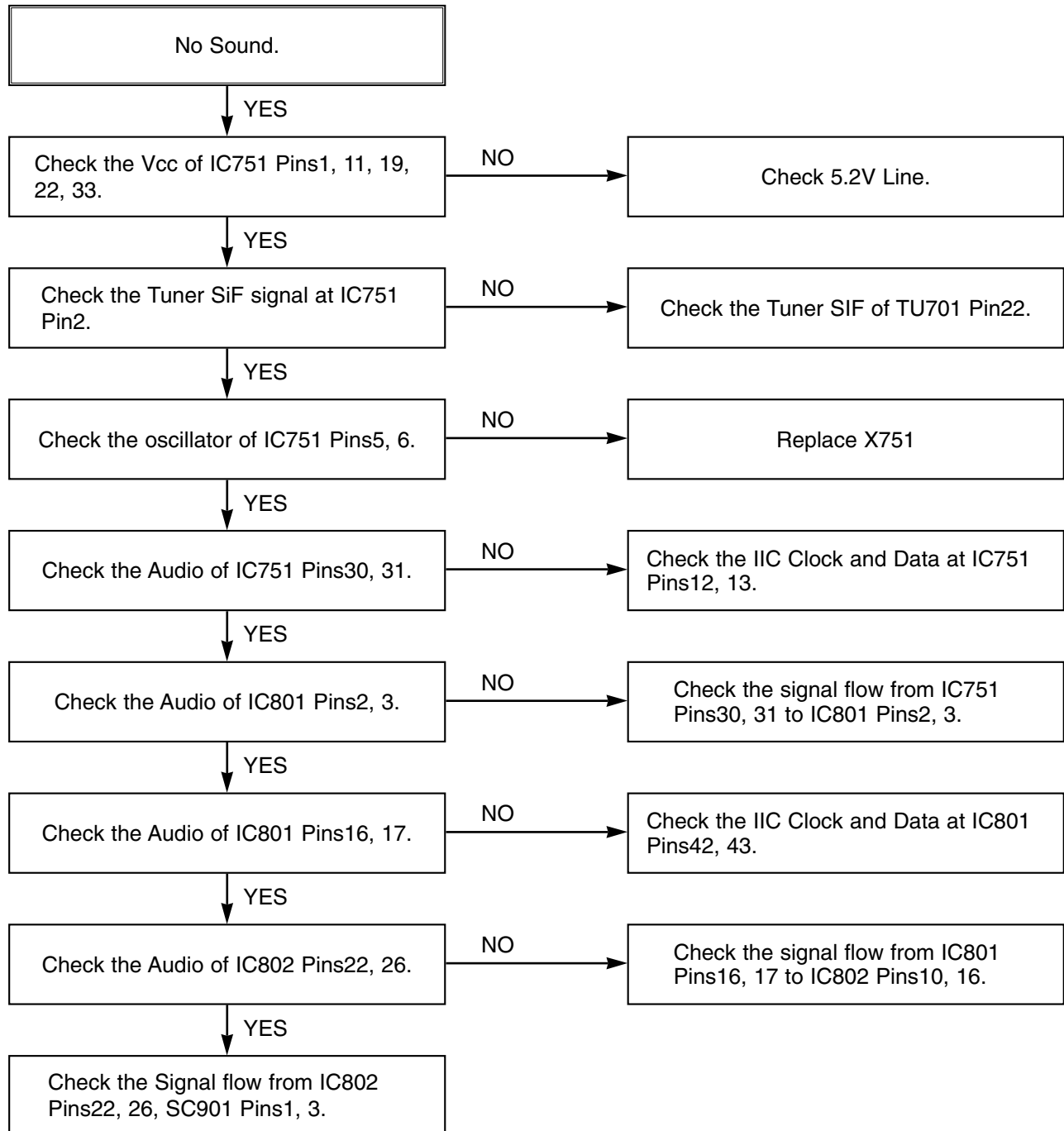


6. Tuner/IF CIRCUIT

(A) No Picture on the TV screen

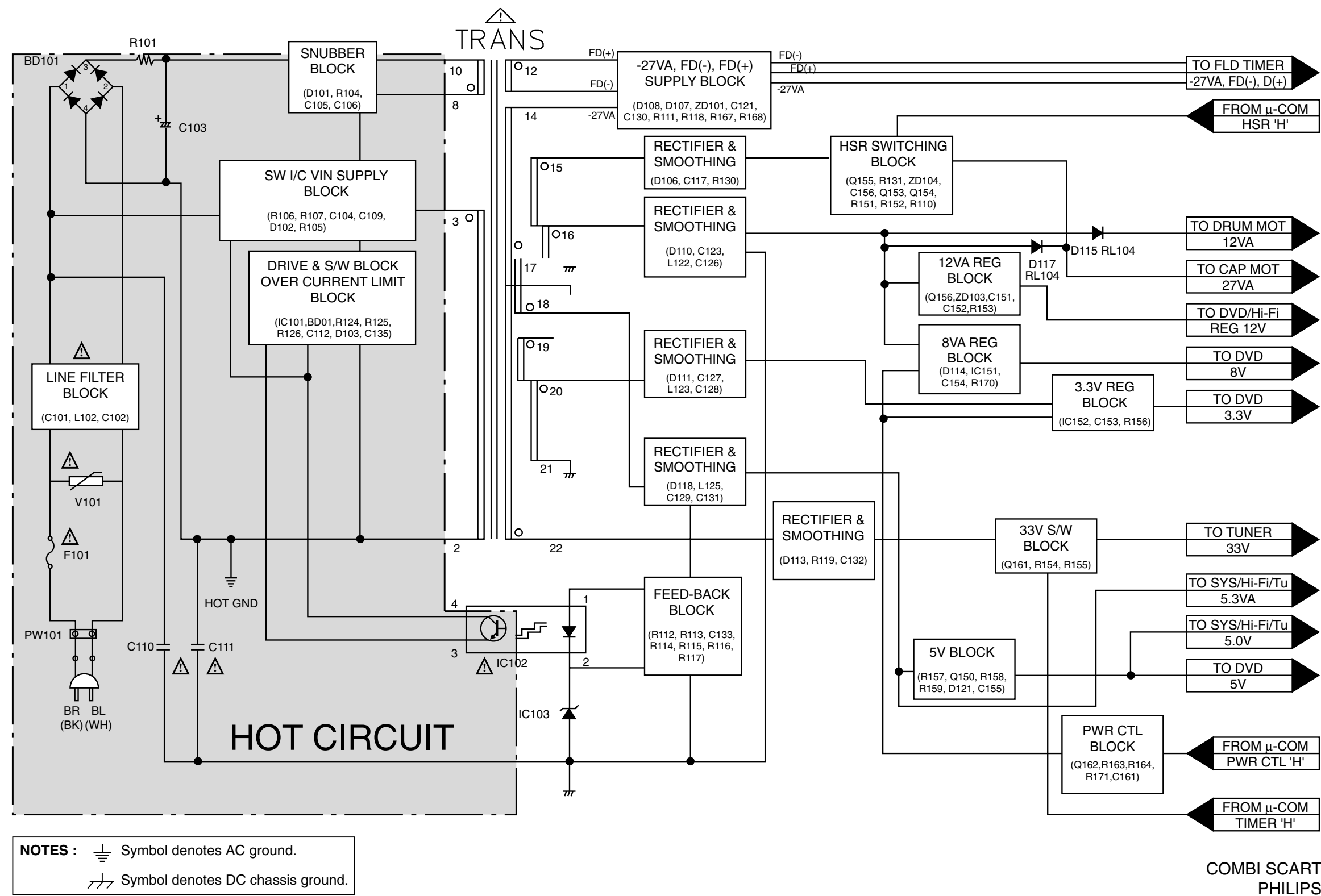


(B) No Sound

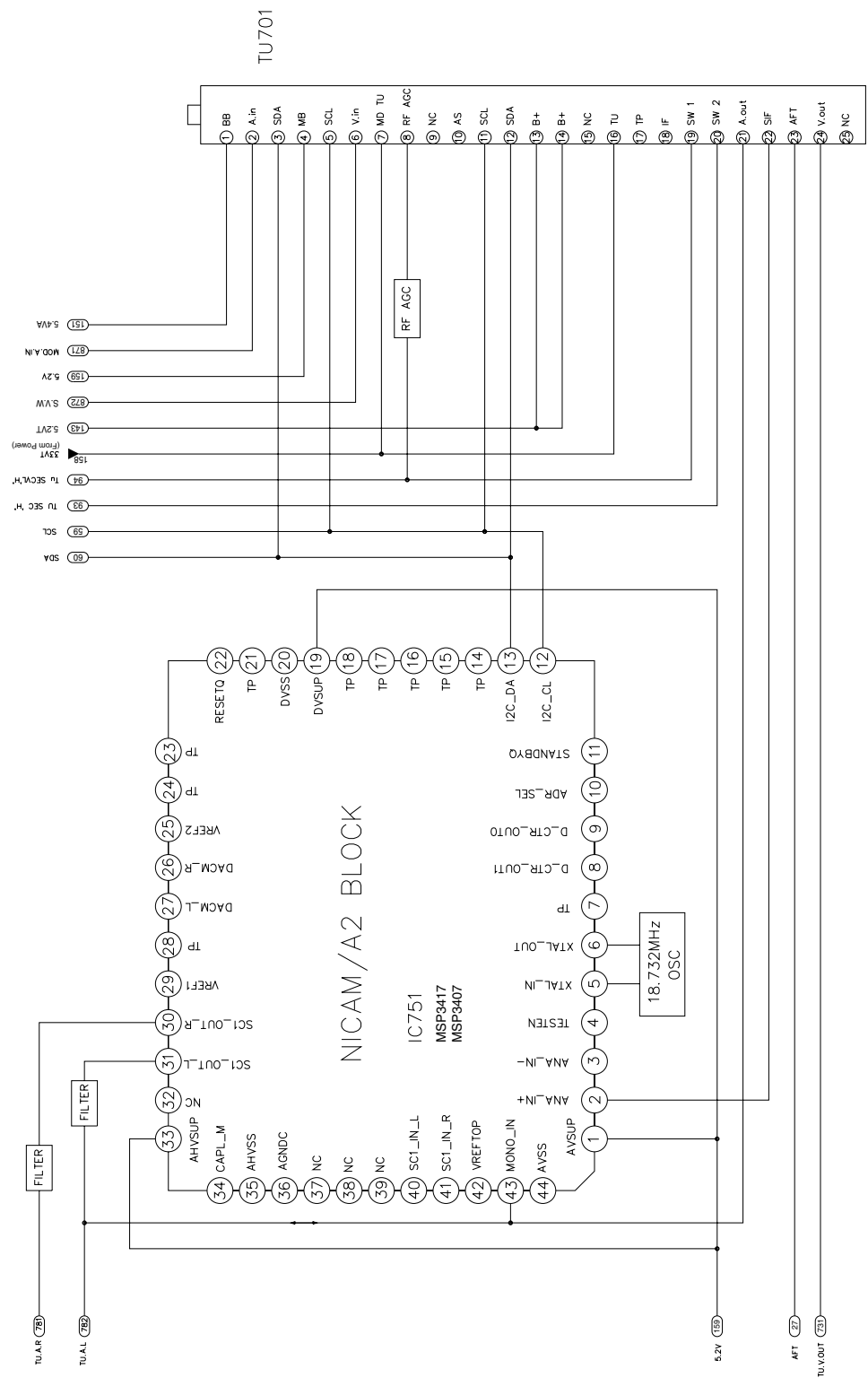


MEMO

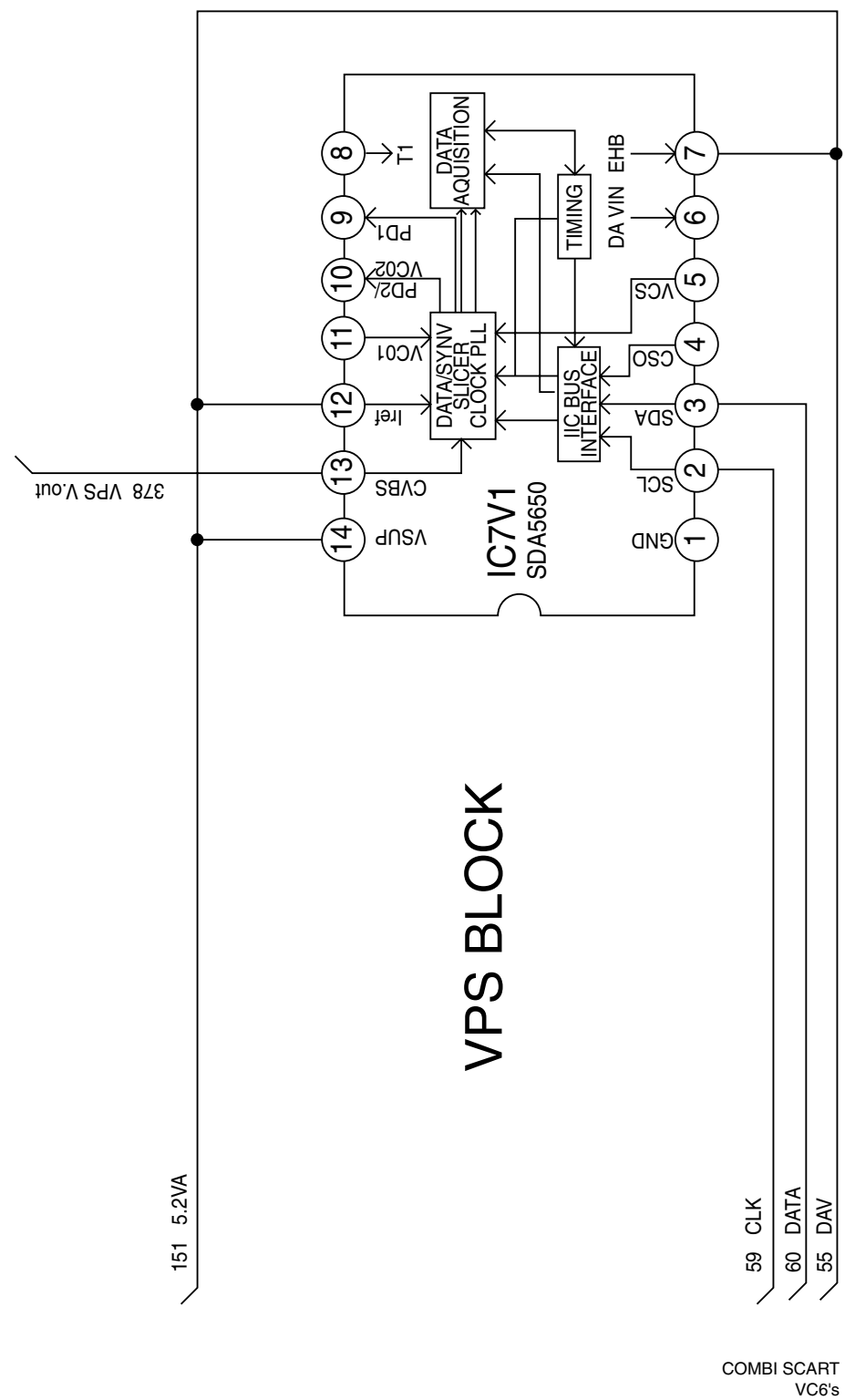
BLOCK DIAGRAMS
1. POWER(SMPS) BLOCK DIAGRAM



2. Tu/IF, NICAM & A2 BLOCK DIAGRAM

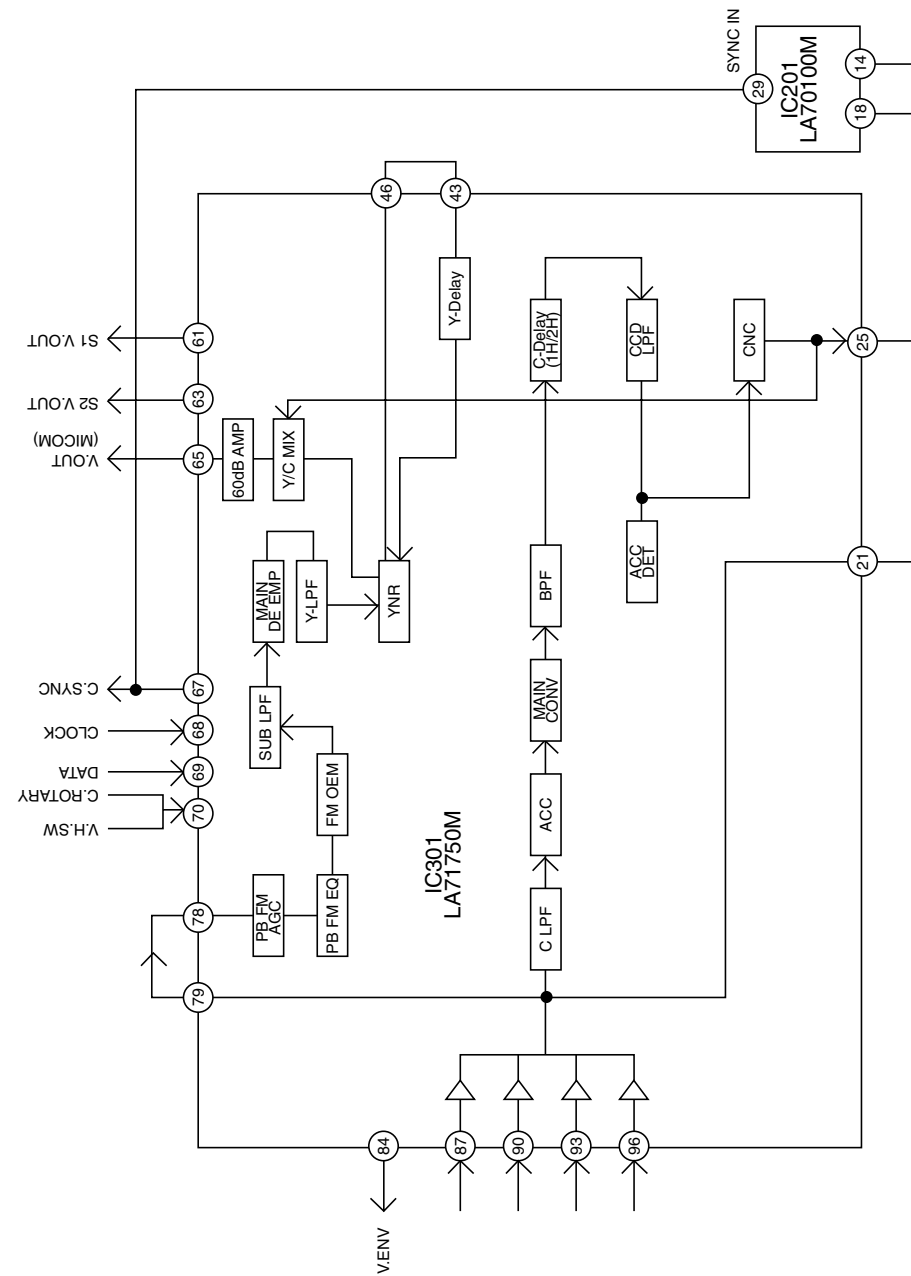


3. VPS BLOCK DIAGRAM



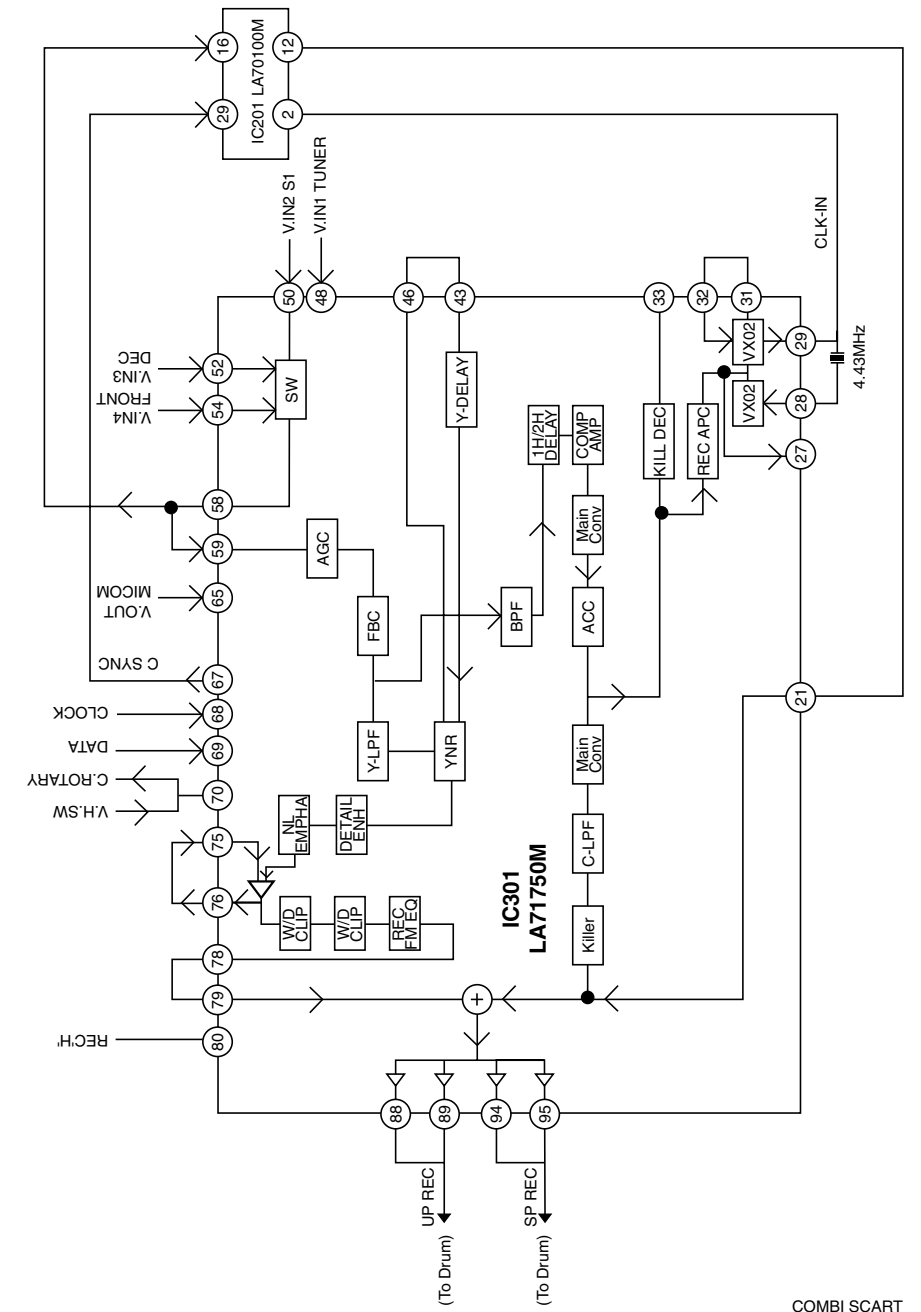
4. Y/C BLOCK DIAGRAM

(PB MODE)



3-24

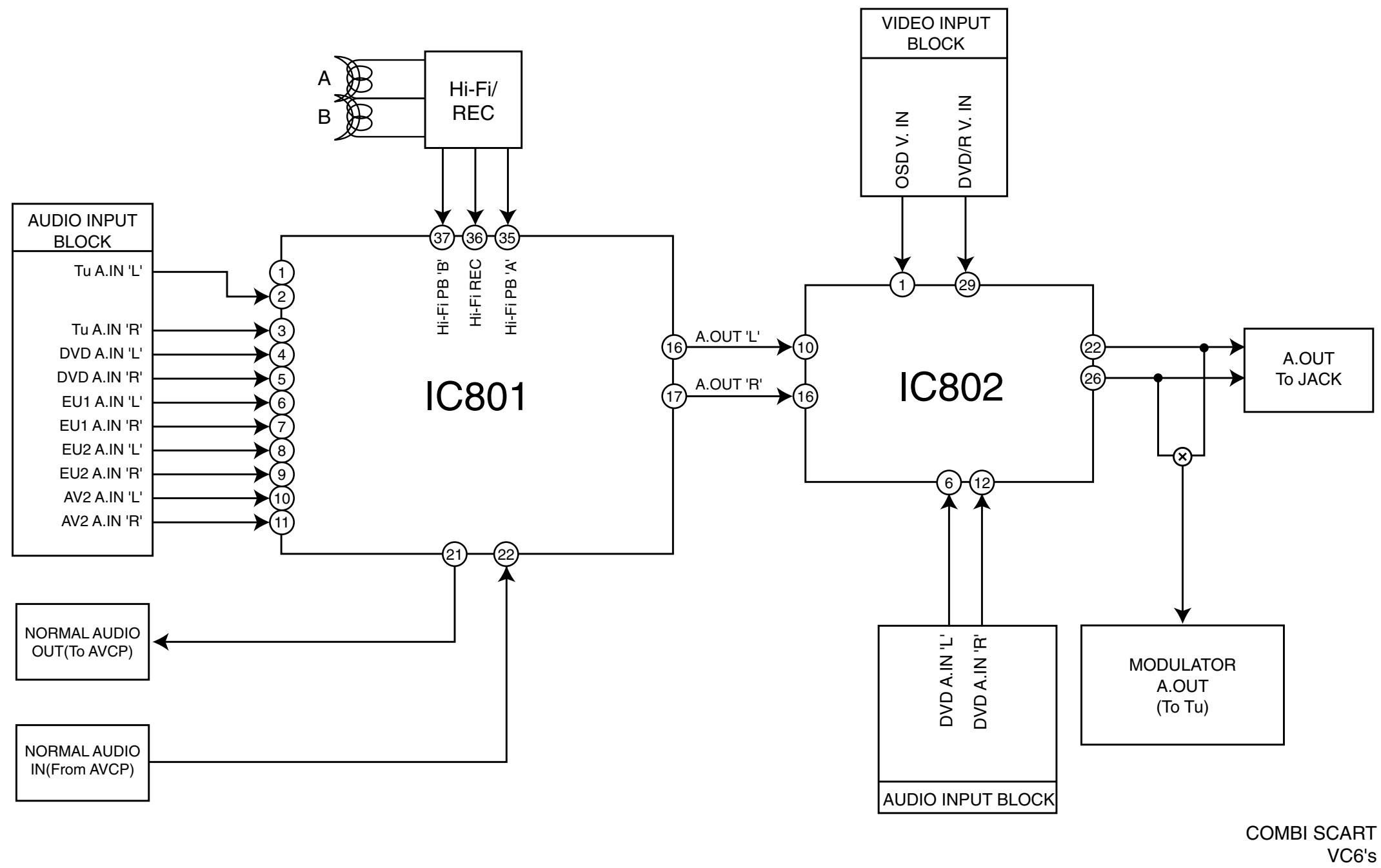
(REC MODE)



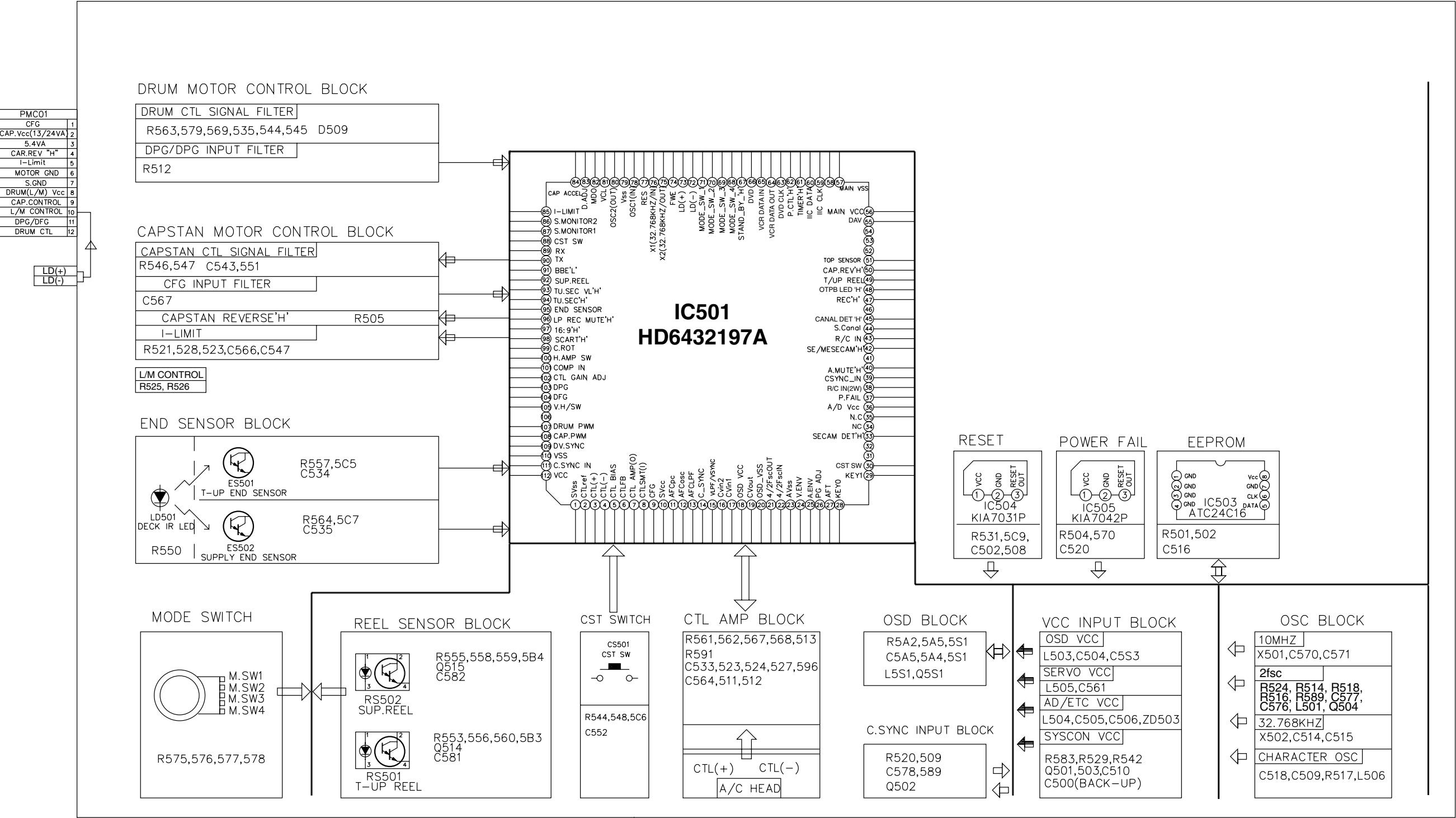
COMBI SCART
VC6's

3-25

5. Hi-Fi BLOCK DIAGRAM

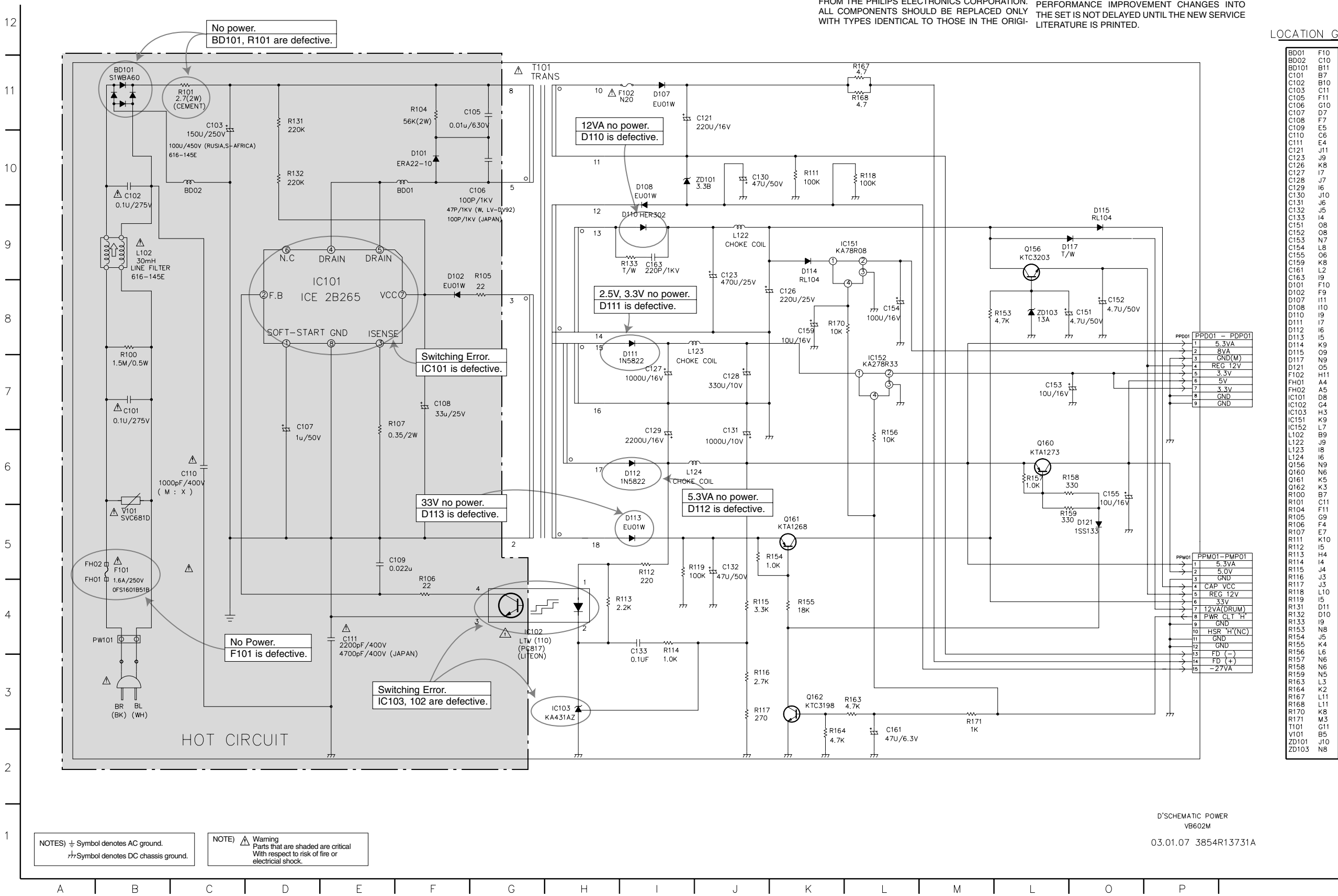


6. SYSTEM BLOCK DIAGRAM

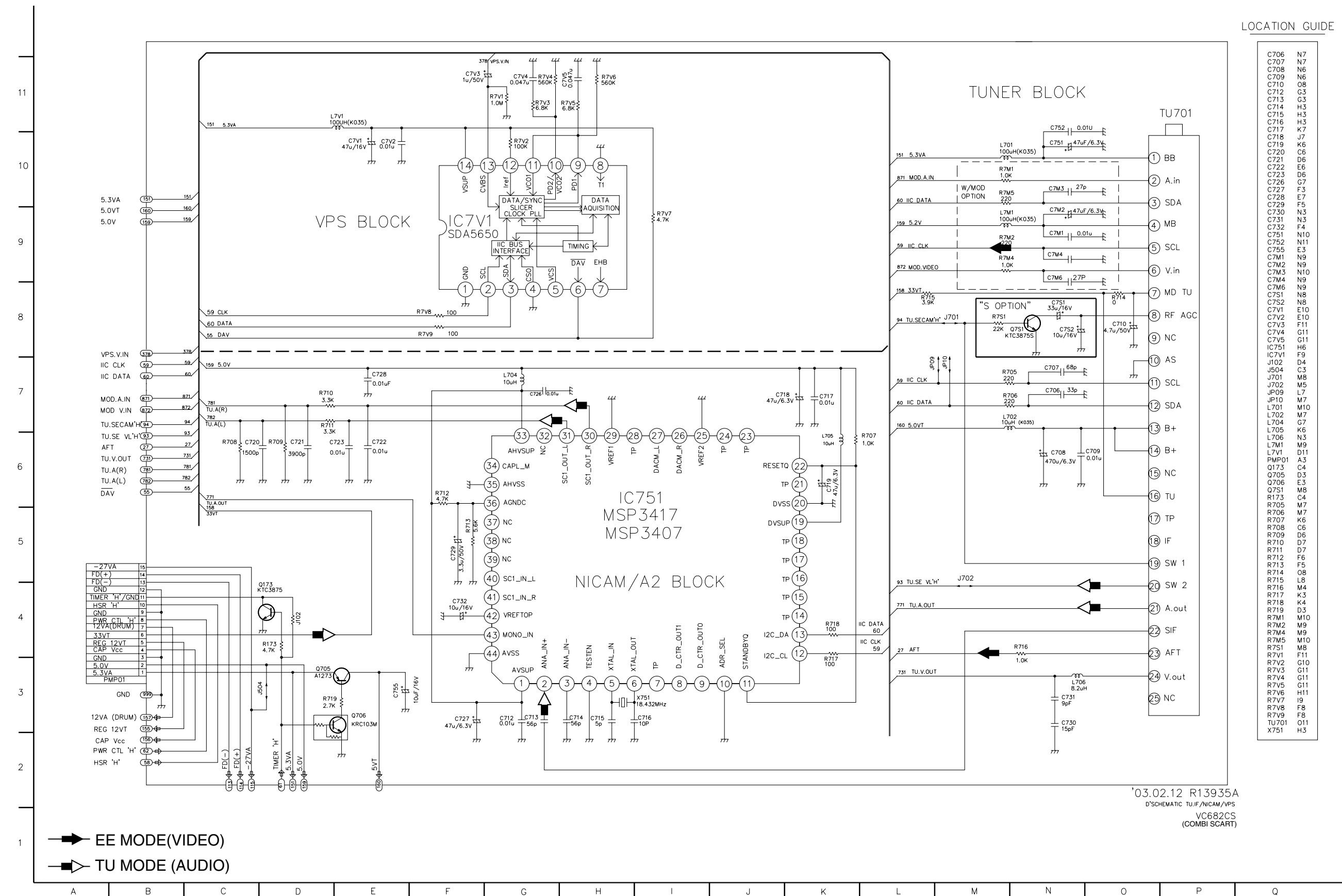


CIRCUIT DIAGRAMS

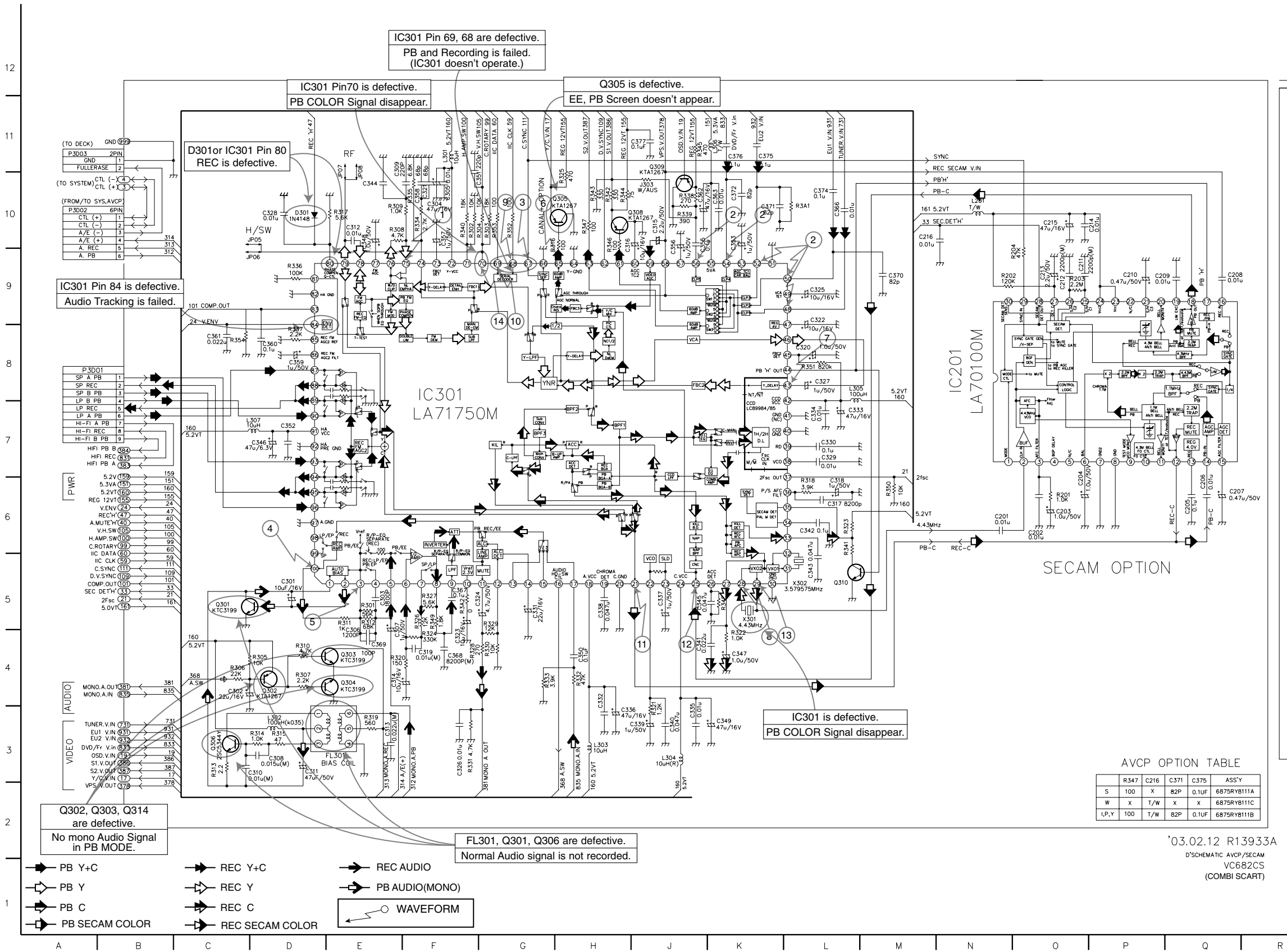
1. POWER(SMPS) CIRCUIT DIAGRAM



2. TU/IF, NICAM & A2 CIRCUIT DIAGRAM



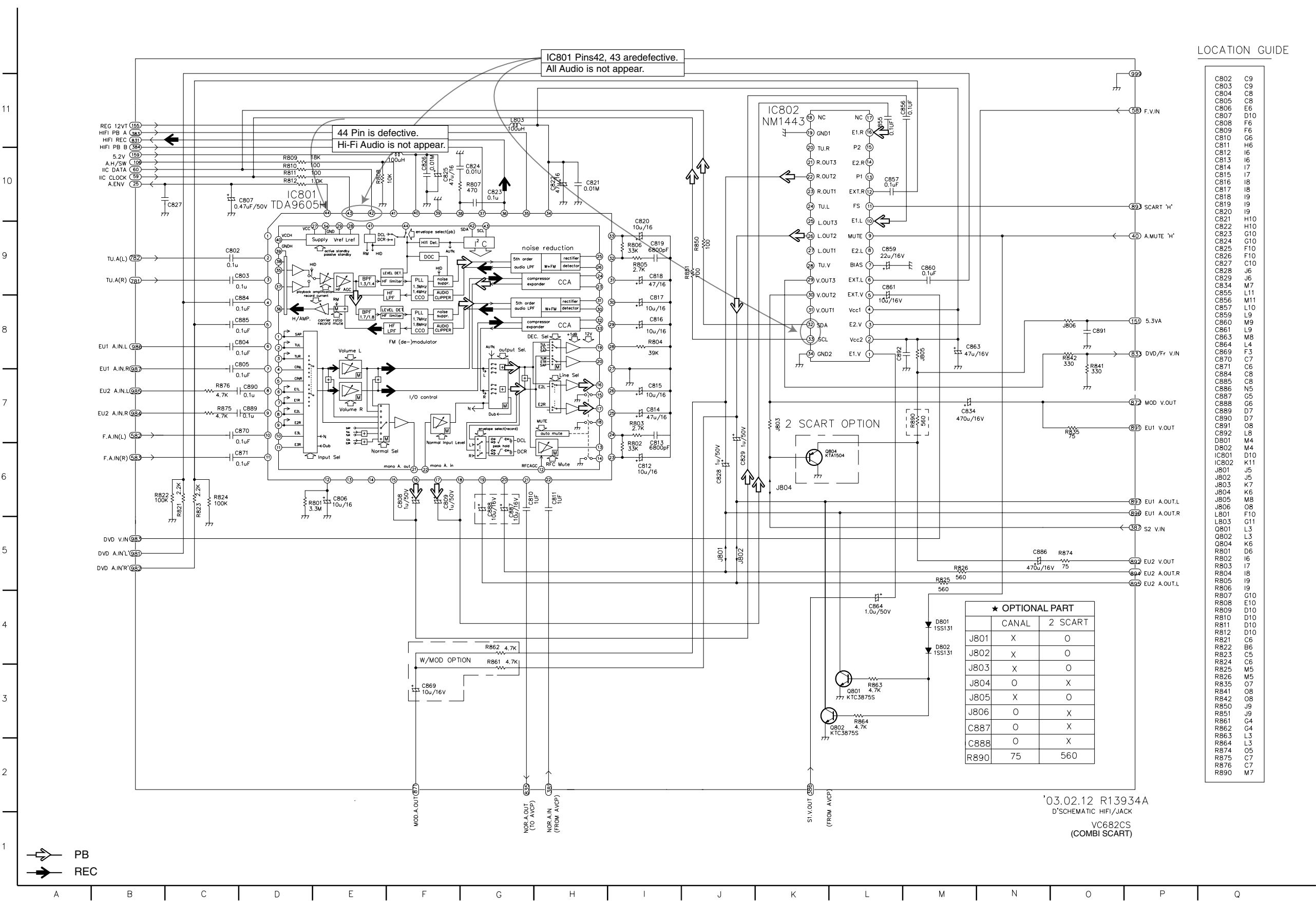
3. A/V CIRCUIT DIAGRAM



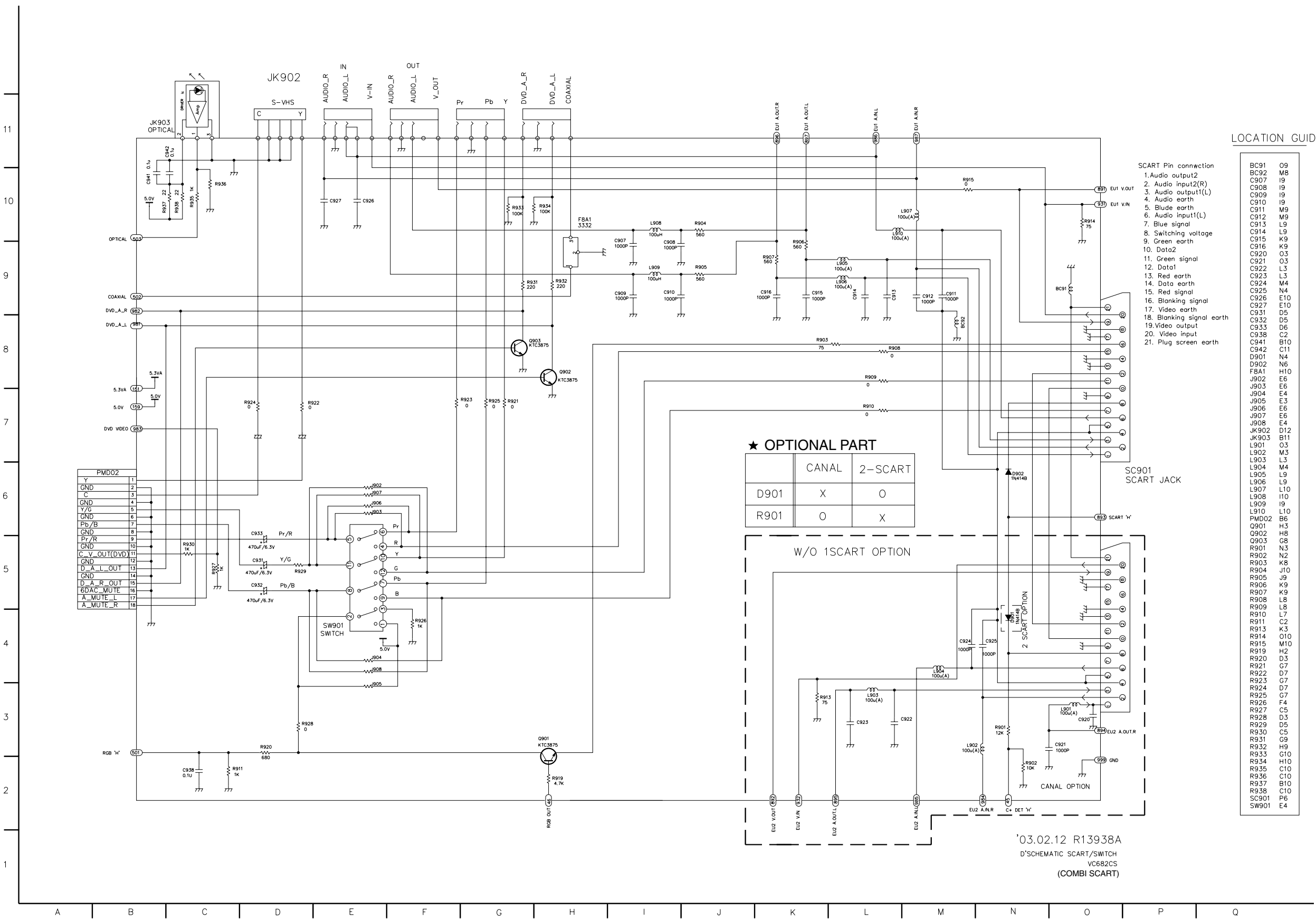
LOCATION GUIDE

C201	M6	C375	J11	R351	K8
C202	N6	C376	J11	R352	G10
C203	N6	C377	I11	R353	G10
C204	N6	D301	D10	R354	C8
C205	P6	FL301	E3	R3A1	K10
C206	P6	IC201	M8	X301	J5
C207	P6	IC301	F8	X302	K5
C208	P9	J303	I10		
C209	O9	JP05	C10		
C210	O9	JP06	C9		
C211	N9	JP07	E10		
C212	N9	JP08	E10		
C213	N9	L201	M10		
C214	O10	L301	F11		
C215	N10	L302	D3		
C216	L10	L303	H3		
C301	D5	L304	I3		
C302	C4	L305	K8		
C303	E5	L306	J11		
C304	F10	L307	C7		
C305	F10	P3001	A8		
C306	E4	P3002	A10		
C307	E4	P3003	A11		
C308	D3	Q301	C5		
C309	E10	Q302	D4		
C310	C3	Q303	E4		
C311	D3	Q304	E10		
C312	E10	Q305	G10		
C313	E3	Q306	C3		
C314	E4	Q308	H10		
C315	I10	Q309	I11		
C316	H9	Q310	K5		
C317	K6	R201	N6		
C318	K6	R202	M9		
C319	F4	R203	N9		
C320	K8	R204	N9		
C321	F10	R301	E5		
C322	K9	R302	F10		
C323	F4	R303	G10		
C324	G5	R304	C10		
C325	K9	R305	D4		
C326	F3	R306	C4		
C327	K8	R307	D4		
C328	D10	R308	E10		
C329	K7	R309	D4		
C330	K7	R310	D4		
C331	G5	R311	E5		
C332	H3	R312	E5		
C333	K7	R313	C3		
C334	K7	R314	D3		
C335	I3	R315	C3		
C336	H3	R316	H9		
C337	I5	R317	E10		
C338	H5	R318	K6		
C339	H5	R319	E3		
C340	I3	R320	E4		
C341	I4	R321	I3		
C342	K6	R322	J4		
C343	K5	R323	K6		
C344	E10	R324	F4		
C345	I5	R325	H10		
C346	D7	R326	F5		
C347	J4	R327	F5		
C348	E9	R328	F4		
C349	J3	R329	G5		
C350	H4	R330	G4		
C351	G10	R331	F3		
C352	D7	R332	H4		
C353	J9	R333	G4		
C355	I9	R334	F10		
C356	I9	R335	F10		
C357	F10	R336	D9		
C358	F10	R337	D8		
C359	D8	R338	I10		
C360	D8	R339	I10		
C361	C8	R340	F10		
C362	I10	R341	K5		
C363	J10	R342	H10		
C366	K10	R343	H10		
C367	F5	R344	H10		
C368	F4	R345	I11		
C369	E4	R346	H9		
C370	L9	R347	H10		
C371	J10	R348	J5		
C372	J10	R349	F5		
C374	K10	R350	L6		

4. Hi-Fi CIRCUIT DIAGRAM

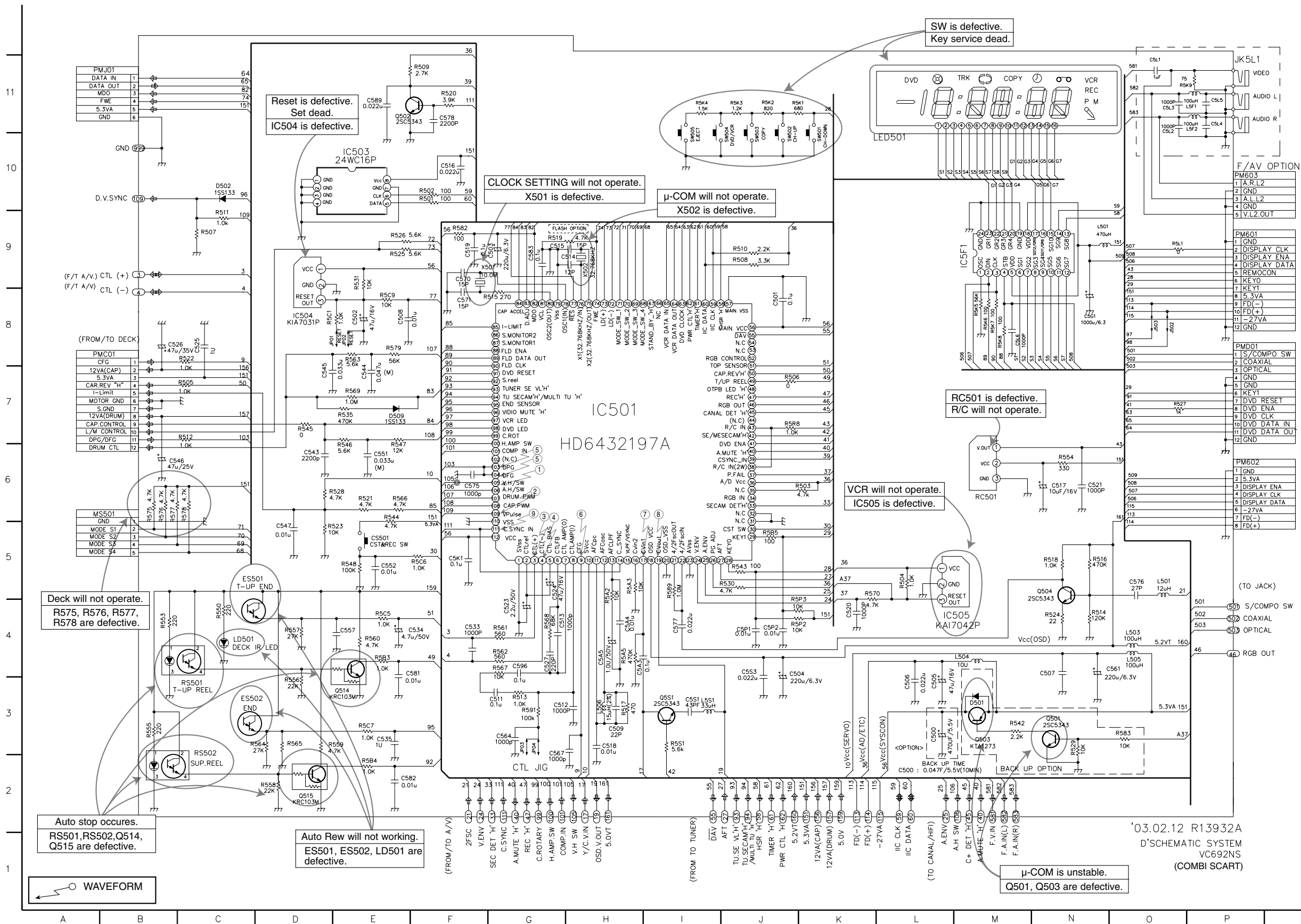


5. SCART(JACK) CIRCUIT DIAGRAM



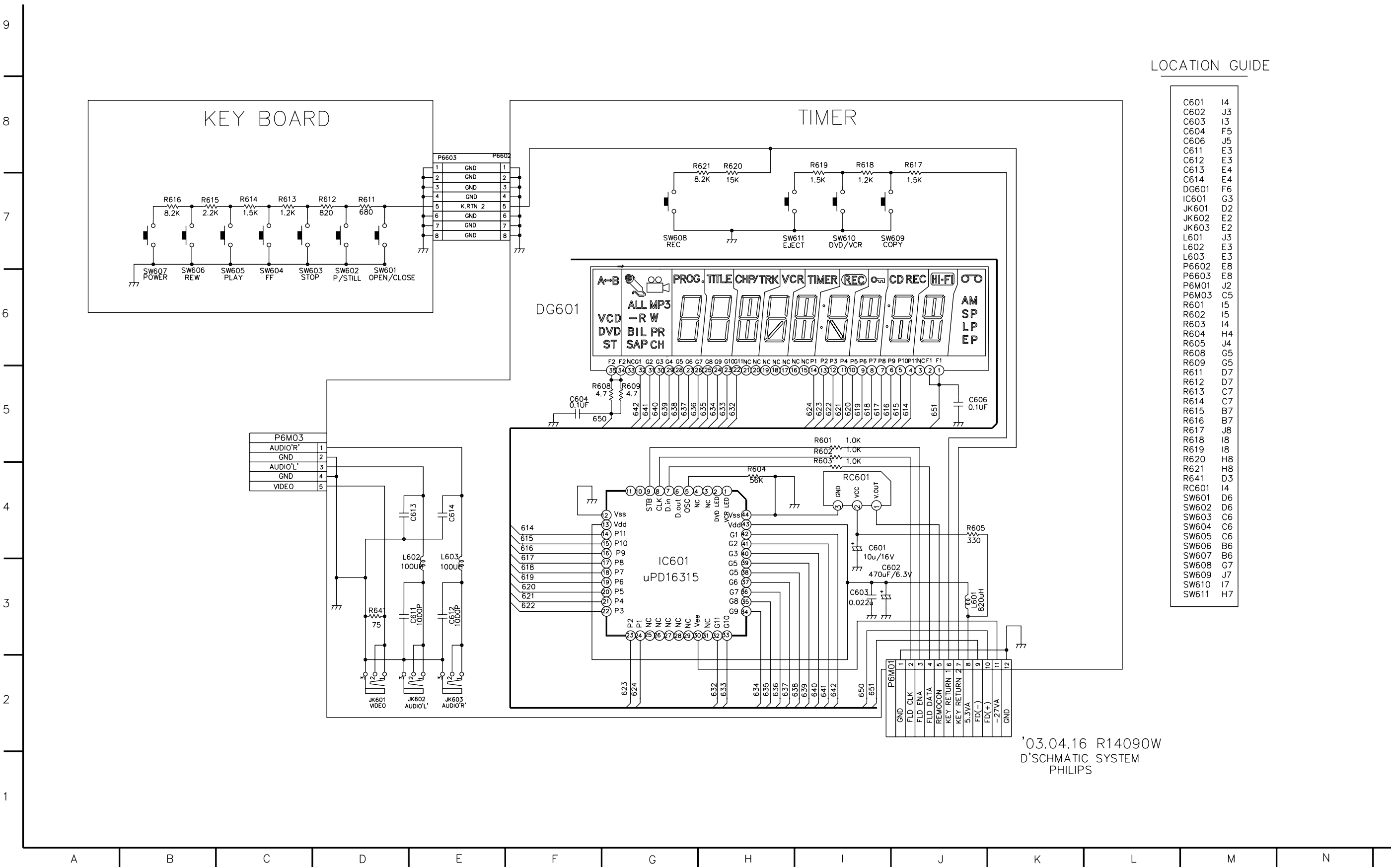
6. SYSTEM CIRCUIT DIAGRAM

LOCATION GUIDE



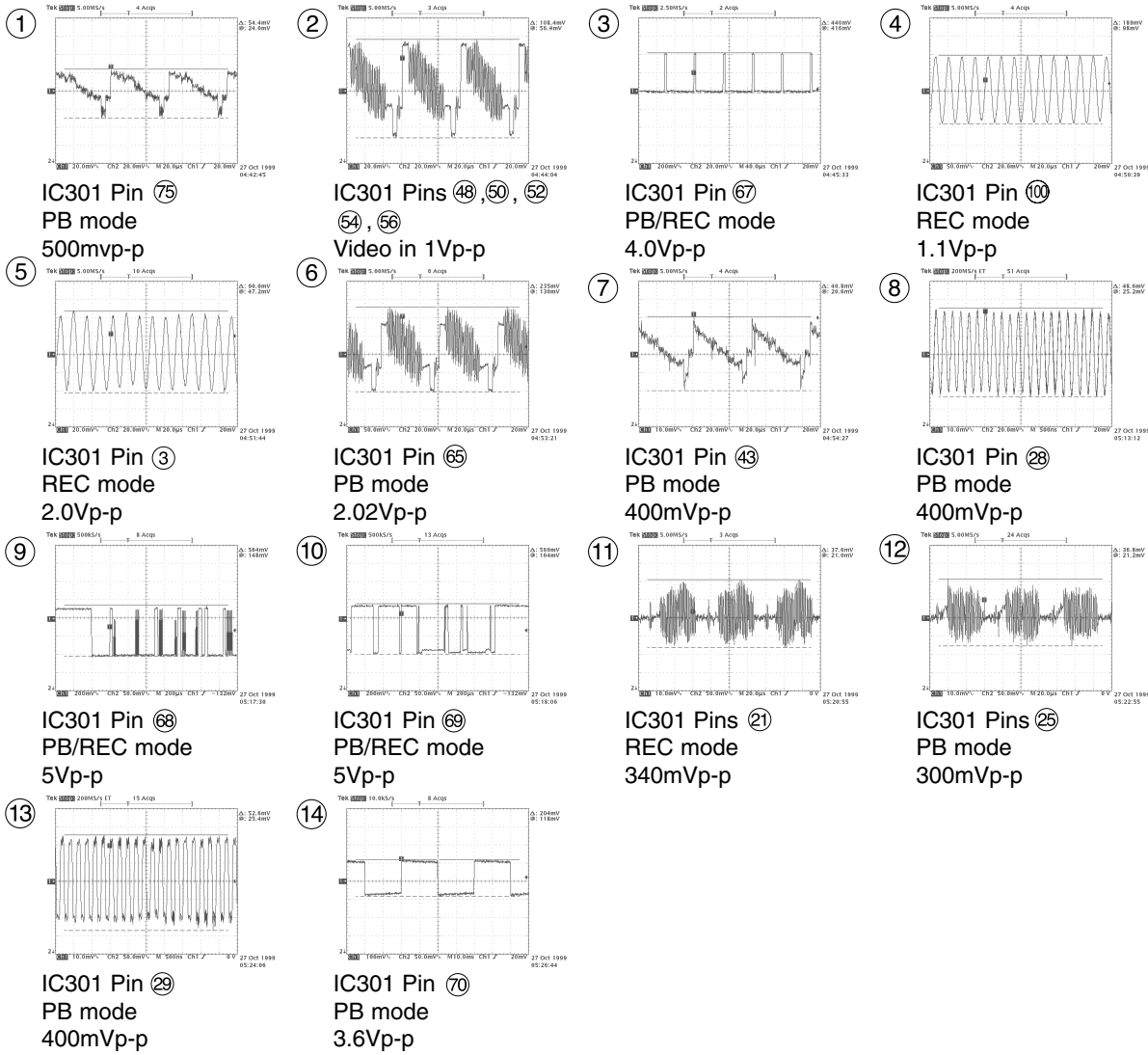
C500	L3	Q515	D2
C501	J8	R501	I3
C502	E8	R501	F10
C503	G9	R502	F10
C504	J4	R503	J6
C505	L3	R504	L5
C506	L3	R505	C7
C507	N4	R506	J7
C508	E8	R507	C9
C509	H3	R508	J9
C510	G3	R509	F11
C512	G3	R510	J9
C513	G4	R511	C9
C514	G9	R512	C7
C515	G9	R513	G3
C516	F10	R514	N4
C517	N6	R515	F8
C518	H3	R516	N5
C519	F9	R517	H3
C520	K4	R518	N5
C521	N6	R519	C9
C523	G4	R520	F11
C524	G4	R521	E6
C525	C8	R522	C8
C526	B8	R523	D5
C527	G4	R524	N4
C533	F4	R525	E9
C534	E4	R526	E9
C535	E3	R527	D7
C543	D6	R528	D6
C544	E7	R529	N3
C545	D7	R530	I5
C546	B6	R531	E8
C547	D5	R535	E7
C551	E6	R542	M3
C552	E5	R543	J5
C554	E4	R544	E6
C561	N4	R545	D7
C564	G3	R546	E6
C567	G2	R547	E6
C570	F9	R548	E5
C571	F8	R550	C4
C575	F6	R553	B4
C576	O5	R554	N6
C577	J4	R555	I3
C578	F11	R556	D3
C581	E4	R557	D4
C582	E2	R558	D2
C583	G9	R559	D3
C589	E11	R560	E4
C596	G4	R561	G4
C5A3	H4	R562	G4
C5A4	H4	R563	E8
C5A5	H4	R564	C3
C5G1	N8	R565	D3
C5K1	F5	R566	E6
C5L1	O11	R567	G4
C5L2	O11	R568	G4
C5L3	O11	R569	E7
C5L4	P11	R570	K5
C5L5	P11	R575	B6
C5L6	M8	R576	B6
C5P1	J4	R577	B6
C5P2	J4	R578	C6
C5S1	I3	R579	E8
C5S3	J4	R582	F9
C5S01	E5	R583	O3
D501	M3	R589	I5
D502	C10	R591	G3
D508	E7	R5A2	H4
E5001	C5	R5A3	H5
E5S02	C3	R5A5	H4
IC501	H7	R5B3	E4
IC503	E10	R5B4	E2
IC504	D8	R5B5	J5
IC505	L4	R5C1	D8
IC5F1	M9	R5C5	E4
J502	O8	R5C6	F5
J503	O8	R5C7	I3
JK5L1	P11	R5C9	E8
JP01	E8	R5K1	J11
JP02	E8	R5K2	J11
JP03	G3	R5K3	J11
JP04	G3	R5K4	I11
L501	O5	R5K5	M8
L503	O4	R5K6	M8
L504	M4	R5K7	M8
L505	O4	R5K8	M8
L506	H3	R5K9	O11
L5F1	P11	R5L1	O9
L5F2	P11	R5P2	J4
L5G1	N9	R5P3	J4
L5S1	I3	R5R8	J7
LD501	C4	R5S1	I3
LED501	K10	RS501	M6
MS501	O10	RS502	C3
PM601	P9	RS502	C2
PM602	P6	SW501	K10
PM603	P10	SW502	J10
PMC01	A8	SW503	J10
PMD01	P8	SW504	J10
PMJ01	A11	SW505	O10
PW501	N3	X501	F9
Q502	E11	X502	H9
Q503	M3		
Q504	N5		
Q514	E3		

7. TIMER CIRCUIT DIAGRAM

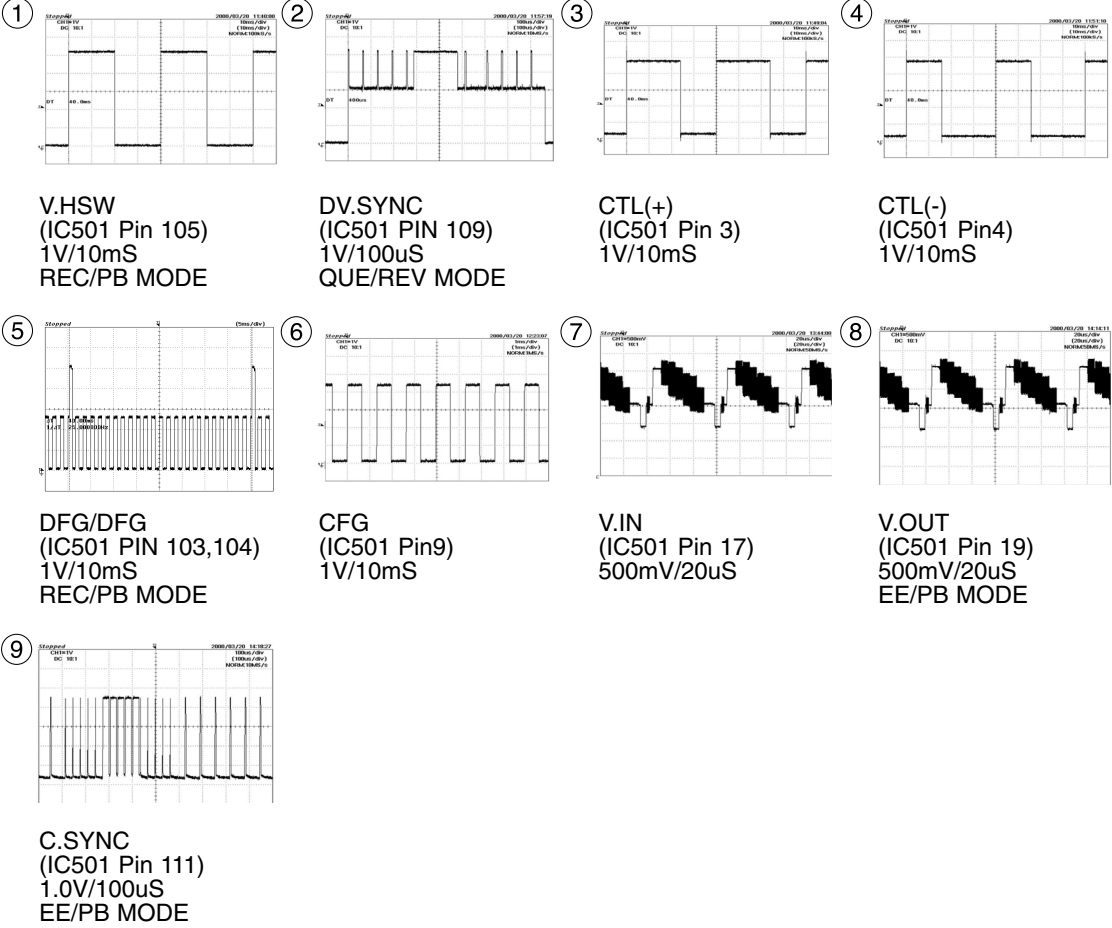


WAVEFORM & VOLTAGE SHEET

★ IC301 Oscilloscope Waveform



* IC501 Waveform Photographs



• CIRCUIT VOLTAGE CHART

MODE PIN NO.	EE	PB	REC
IC 2 0 1			
1	2.36 V	2.35 V	2.32 V
2	2.4 V	2.35 V	2.4 V
3	3.5 V	3.49 V	3.5 V
4	2.43 V	2.41 V	2.38 V
5	0.002 V	0.005 V	0.006 V
6	0.4 V	3.7 V	0.39 V
7	0.003 V	0.003 V	0.003 V
8	0.003 V	0.003 V	0.003 V
9	2.87 V	2.85 V	2.81 V
10	2.36 V	2.35V	2.32 V
11	3.16 V	3.13 V	3 V
12	3 V	1.7 V	3.03 V
13	4 V	4 V	4 V
14	2.3 V	2.3 V	2.25 V
15	2.98 V	1.78 V	2.93 V
16	3.2 V	3.2 V	3.2 V
17	0.15 V	3.86 V	0.017 V
18	0.124 V	3.38 V	0.127 V
19	2.23 V	2.23 V	2.23 V
20	3 V	3.3 V	3.3 V
21	1.84 V	2.34 V	2.35 V
22	4.71 V	0.002 V	0.007 V
23	4.72 V	4.69 V	4.64 V
24	4.72 V	4.69 V	4.63 V
25	2.37 V	2.26 V	2.37 V
26	2.37 V	2.25 V	2.36 V
27	3 V	2.86 V	3 V
28	0.182 V	0.187 V	0.182 V
29	0.46 V	0.62 V	0.85 V
30	1.95 V	1.94 V	1.91 V
IC 3 0 1			
1	4.8 V	4.84 V	0.99 V
2	0.11 V	0.014 V	0.81 V
3	2.16 V	2.16 V	2.03 V
4	0.69 V	0.63 V	1.73 V
5	2.15 V	2.15 V	2.26 V
6	2.16 V	2.15 V	2.06 V
7	2.15 V	2.15 V	2.1 V
8	2.15 V	2.15 V	2.1 V
9	2.14 V	2.14 V	2.73 V
10	2.16 V	2.16 V	2.66 V
11	2.23 V	2.27 V	2.8 V
12	1.56 V	0.002 V	2.0 V
13	2.14 V	2.14 V	0.095 V
14	0.022 V	0.022 V	2.05 V
15	2.14 V	2.14 V	2.08 V
16	4.85 V	0.146 V	4.68 V
17	2.14 V	2.14 V	2.09 V
18	4.8 V	4.86 V	4.73 V
19	3.88 V	3.92 V	2.72 V
20	2.31 V	0.003 V	0.006 V
21	3 V	1.68 V	3.02 V
22	3.2 V	2.62 V	3.2 V
23	3.2 V	2.55 V	3.2 V

MODE PIN NO.	EE	PB	REC
24	4.85 V	4.85 V	4.75 V
25	0.121 V	3.4 V	0.19 V
26	1.65 V	1.25 V	1.6 V
27	2.16 V	2.1 V	2.14 V
28	3.75 V	3.7 V	3.66 V
29	2.43 V	2.46 V	2.34 V
30	0.002 V	0.002 V	0.005 V
31	4.76 V	4.58 V	4.72 V
32	4.68 V	4.58 V	4.71 V
33	2.88 V	2.86 V	2.8 V
34	0.061 V	0.06 V	0.061 V
35	3.02 V	2.34 V	2.99 V
36	3.5 V	2.84 V	3.4 V
37	1.7 V	1.76V	1.61 V
38	2 V	2.05 V	1.94 V
39	8.65 V	8.6 V	8.38 V
40	0.002 V	0.003 V	0.006 V
41	0.002 V	0.003 V	0.006 V
42	4.8 V	4.8 V	4.68 V
43	2.4 V	2.67 V	2.17 V
44	13.8 mV	3.86 V	0.03 V
45	2.5 V	2.52 V	2.55 V
46	2.6 V	2.78 V	2.64 V
47	4.14 V	4.14 V	4.14 V
48	3.3 V	3.09 V	3.30 V
49	2.97 V	2.93 V	3.69 V
50	1.93 V	1.92 V	1.92 V
51	0.002 V	0.003 V	0.005 V
52	1.93 V	1.93 V	1.92 V
53	2.33 V	2.33 V	2.34 V
54	1.93 V	1.92 V	1.92 V
55	5.14 V	5.14 V	5.13 V
56	2.24 V	2.57 V	2.22 V
57	1.95 V	2.28 V	0.006 V
58	3 V	2.55 V	3.01 V
59	2.9 V	2.93 V	2.92 V
60	1.47 V	1.54 V	1.48 V
61	1.8 V	2.44 V	1.79 V
62	0.087 V	0.09 V	0.088 V
63	1.8 V	2.55 V	1.78 V
64	0.002 V	0.003 V	0.006 V
65	1.71 V	0.002 V	1.69 V
66	0.002 V	0.003 V	0.006 V
67	0.005 V	0.07 V	0.44 V
68	4.8 V	4.8 V	4.78 V
69	4.7 V	4.7 V	4.7 V
70	7.75 V	2.55 V	5.55 V
71	5.55 V	0.008 V	0.008 V
72	4.84 V	4.8 V	4.72 V
73	2.21 V	2.2 V	2.24 V
74	2.45 V	2.6 V	2.43 V
75	2.38 V	0.72 V	2.38 V
76	2.4 V	0.81 V	2.39 V
77	1.58 V	1.6 V	1.48 V
78	2.44 V	3.35 V	2.33 V

MODE PIN NO.	EE	PB	REC
79	1.73 V	1.67 V	2.51 V
80	0.98 V	0.98 V	4.46 V
81	1.1 V	1.13 V	1.15 V
82	0.003 V	0.004 V	0.006 V
83	1.65 V	1.03 V	1.41 V
84	0.258 V	2.5 V	0.014 V
85	0.002 V	0.003 V	1.38 V
86	0.251 V	0.014 V	1.98 V
87	0.77 V	0.78 V	0.78 V
88	0.77 V	0.78 V	0.77 V
89	0.77 V	0.78 V	0.77 V
90	0.77 V	0.78 V	0.77 V
91	4.85 V	4.83 V	4.74 V
92	2.1 mV	0.004 V	0.006 V
93	1.7 V	1.72 V	3.94 V
94	1.7 V	1.71 V	3.93 V
95	1.7 V	1.71 V	3.92 V
96	1.7 V	1.71 V	3.94 V
97	0.002 V	0.005 V	0.006 V
98	2.16 V	2.16 V	2.21 V
99	2.16V	2.16 V	2.25 V
100	2.16 V	2.16 V	2.31 V
IC 5 F 1			
1	2.33 V	2.31 V	2.3 V
2	4.98 V	4.9 V	4.9 V
3	5 V	5 V	5 V
4	4.96 V	4.9 V	4.9 V
5	4.89 V	4.85 V	4.8 V
6	0.64 V	0.59 V	0.6 V
7	0.64 V	0.59 V	0.6 V
8	0.64 V	0.61 V	0.6 V
9	0.73 V	0.93 V	0.96 V
10	1 V	0.92 V	0.91 V
11	0.72 V	0.63 V	0.92 V
12	1.83 V	1.84 V	1.8 V
13	0.73 V	0.75 V	0.72 V
14	1.26 V	1.22 V	1.2 V
15	1.26 V	1.23 V	1.1 V
16	1.65 V	1.63 V	1.54 V
17	1.58 V	1.58 V	1.42 V
18	4.89 V	4.8 V	4.8 V
19	0.002 V	0.003 V	0.003 V
20	1.75 V	1.63 V	1.5 V
21	1.7 V	1.7 V	1.5 V
22	1.78 V	1.71 V	1.5 V
23	1.73 V	1.6 V	1.41 V
24	0.002 V	0.003 V	0.003 V
IC 7 5 1			
1	5.1 V	5.1 V	5.08 V
2	1.5 V	1.5 V	1.51 V
3	1.5 V	1.5 V	1.5 V
4	0.002 V	0.003 V	0.003 V
5	2.5 V	2.46 V	2.46 V
6	2.44 V	2. 44 V	2.43 V
7	1.84 V	1.89 V	2.06 V

MODE PIN NO.	EE	PB	REC
8	1.86 V	0.004 V	0.004 V
9	1.86 V	0.004 V	0.004 V
10	0.002 V	0.003 V	0.003 V
11	5.12 V	5.12 V	5.11 V
12	4.8 V	4.8 V	4.8 V
13	4.7 V	4.75 V	4.7 V
14	1.75V	2.6 V	2.59 V
15	1.77 V	2.6 V	2.6 V
16	1.77 V	5 V	5 V
17	1.75 V	1.5 V	2.06 V
18	1.75 V	1.5 V	2 V
19	5 V	5 V	5 V
20	0.003 V	0.003 V	0.003 V
21	1.88 V	1.58 V	2 V
22	5.1 V	5.1 V	5.11 V
23	0.002 V	0.005 V	0.004 V
24	0.002 V	0.005 V	0.005 V
25	0.002 V	0.003 V	0.003 V
26	0.05 V	0.051 V	0.051 V
27	0.05 V	0.05 V	0.05 V
28	0.002 V	0.003 V	0.005 V
29	0.002 V	0.003 V	0.003 V
30	2.78 V	2.77 V	2.76 V
31	2.78 V	1.9 V	2.76 V
32	0.002 V	0.003 V	0.005 V
33	5.1 V	5.09 V	5.08 V
34	4.06 V	4.08 V	4.06 V
35	0.003 V	0.003 V	0.003 V
36	2.77 V	2.76 V	2.76 V
37	0.002 V	0.002 V	0.002 V
38	0.002 V	0.003 V	0.002 V
39	0.002 V	0.003 V	0.002 V
40	2.76 V	2.75 V	2.75 V
41	2.76 V	2.75 V	2.75 V
42	2.59 V	2.59 V	2.6 V
43	2.35 V	2.35 V	2.35 V
44	0.003 V	0.003 V	0.003 V
IC 5 0 1			
1	0.002 V	0.002 V	0.002 V
2	2.56 V	2.55 V	2.55 V
3	2.56 V	2.55 V	2.9 V
4	2.56 V	2.55 V	2 V
5	2.56 V	2.55 V	2.55 V
6	2.56 V	2.56 V	2.55 V
7	2.64 V	2.63 V	2.6 V
8	2.54 V	2.53 V	2.52 V
9	0.064 V	2.27 V	2.26 V
10	5.13 V	5.12 V	5.11 V
11	1.69 V	1.68 V	1.66 V
12	1.7 V	1.7 V	1.67 V
13	2.32 V	2 V	2.3 V
14	0.48 V	0.08 V	0.53 V
15	1.28 V	1.29 V	1.36 V
16	1.84 V	1.83 V	1.8 V
17	2.32 V	3 V	2.26 V

MODE PIN NO.	EE	PB	REC
18	4.7 V	4,7 V	4.6 V
19	2.19 V	3 V	2.13 V
20	0.01 V	0.009 V	0.01 V
21	2.2 V	2.2 V	2.16 V
22	2.32 V	2.3 V	2.26 V
23	0.01 V	0.009 V	0.01 V
24	0.3 V	2.84 V	0.012 V
25	0.08 V	3.4 V	0.068 V
26	5.14 V	5.13 V	5.12 V
27	4.2 V	4.16 v	3.93 V
28	5.13 V	5.13 V	5.11 V
29	5.13 V	5.13 V	5.11 V
30	0.004 V	0.002 V	0.003 V
31	0.002 V	0.002 V	0.002 V
32	0.002 V	0.002 V	0.002 V
33	0.18 V	0.18 V	0.18 V
34	1.37 V	1.3 V	1.42 V
35	5.14 V	5.13 V	5.1 V
36	5.14 V	5.13 V	5.1 V
37	4.74 V	4.73 V	4.7 V
38	4.74 V	4.75 V	4.7 V
39	2.45 V	4.9 V	2.33V
40	5 V	0.003 V	4.96 V
41	2.28 V	1.55 V	1.42 V
42	0.003 V	0.003 V	0.004 V
43	4.76 V	4.75 V	4.73 V
44	0.003 V	0.003 V	0.004 V
45	(-)0.001 V	(-)0.001 V	(-)0.001 V
46	0.003 V	0.003 V	0.004 V
47	0.003 V	0.003 V	5 V
48	0.003 V	0.003 V	0.004 V
49	5.14 V	0~5 V	0.005~5 V
50	5.1 V	0.003 V	0.004 V
51	4.38 V	0.03 V	0.035 V
52	0.031 V	5.06 V	0.038 V
53	0.003 V	0.003 V	0.004 V
54	5.1 V	5 V	5 V
55	5.1 V	5.13 V	5.11 V
56	5.1 V	5,1 V	5.1 V
57	0.002 V	0.002 V	0.002 V
58	0.003 V	0.004 V	0.004 V
59	4.8 V	4.8 V	4.8 V
60	4.7 V	4.7 V	4.9 V
61	4.7 V	5 V	5 V
62	5 V	5 V	5 V
63	1.8 V	1.3 V	1.68 V
64	5.1 V	5 V	5 V
65	1.78 V	5.1 V	1.66 V
66	5.1 V	5.1 V	5.08 V
67	0.004 V	4.4 V	5.08 V
68	0.001 V	5.1 V	0.005 V
69	0.001 V	5.1 V	5.12 V
70	5.14 V	5.1 V	5.12 V
71	5.14 V	0.001 V	0.001 V
72	0.028 V	0.028 V	0.029 V

MODE PIN NO.	EE	PB	REC
73	5 V	5.1 V	5.04 V
74	0.001 V	0.001 V	0.002 V
75	1.5 V	1.93 V	1.48 V
76	1.7 V	2.02 V	1.44 V
77	5.1 V	5.1 V	5.08 V
78	2.5 V	2.51 V	2.52 V
79	0.001 V	0.002 V	0.002 V
80	2.53 V	2.5 V	2.5 V
81	3.2 V	3.2 V	3.19 V
82	5.12 V	5.1 V	5.1 V
83	0.172 V	2.68 V	2.55 V
84	0.004 V	2.4 V	2.69 V
85	0.019 V	3.4 V	3.44 V
86	2.55 V	2.55 V	2.56 V
87	5.11 V	3.1 V	2.29 V
88	5.11 V	4.95 V	4.9 V
89	5.11 V	4.97 V	4.9 V
90	5.11 V	5 V	4.98 V
91	5.11 V	5.1 V	5.09

1. MAIN P.C.BOARD



BC91	A6	C807	E10	L304	G7
BC92	A3	C808	C9	L305	H7
C203	G10	C809	D8	L306	H9
C204	H10	C812	D8	L307	E9
C207	H11	C814	D8	L501	J8
C210	H11	C815	D8	L503	H9
C211	H12	C816	E8	L504	L2
C212	H12	C817	E9	L505	L11
C213	G11	C818	E8	L506	K9
C215	H11	C820	E9	L5F1	M2
C301	E8	C822	E9	L5F2	M2
C302	F7	C825	D10	L5G1	M
C304	F10	C828	C7	L5S1	J
C307	E8	C829	C7	L701	F1
C311	F5	C834	C7	L702	D1
C313	F4	C859	D8	L704	E12
C314	E7	C861	C8	L705	E11
C315	G9	C863	D8	L706	E2
C316	G9	C864	E7	L7M1	C1
C318	G7	C869	C2	L7V1	L4
C320	H8	C886	B6	L801	D10
C322	H8	C887	C8	L803	C5
C323	F6	C888	C3	L804	K2
C324	F7	C931	B12	L805	L2
C325	G8	C932	B11	L901	B3
C327	G8	C933	B11	L902	B3
C331	G6	C934	C12	L903	B3
C333	G7	C935	C11	L904	B4
C336	F7	C5501	M11	L905	A2
C337	G7	D301	16	L906	A2
C339	H6	D501	M6	L907	B3
C346	E9	D502	L10	L908	B9
C347	G7	D509	L10	L909	B8
C348	F9	D801	C2	L910	B4
C349	F7	D802	B2	LD501	17
C353	G9	D901	C5	LED501	N11
C356	G9	D902	C5	MS501	K3
C357	F10	E5501	H1	P3D01	E8
C359	F9	E5502	I12	P3D02	F6
C362	G9	F8A1	G12	P3D03	G12
C500	L3	FL301	G5	PM601	N6
C502	M8	IC501	L8	PM602	N9
C503	M8	IC503	L12	PM603	N4
C504	J9	IC504	M7	PMC01	G3
C505	J6	IC505	J6	PMD01	J12
C517	M7	IC7V1	L5	PMD02	C12
C523	L9	J502	M8	PMJ01	L12
C524	L9	J503	M8	PMP01	C5
C526	F2	J504	K1	Q306	F4
C534	J1	J701	F2	Q503	M6
C546	G3	J702	F2	Q705	E2
C561	J10	J801	C3	RC501	N8
C5A5	J9	J802	C3	RS501	K5
C5G1	M10	J804	D6	RS502	K9
C708	D1	JK5L1	N3	SC901	A4
C710	C2	JK502	B8	SW501	M7
C718	E11	JK903	A11	SW502	M6
C719	F11	JP01	K12	SW503	M5
C727	E12	JP02	K12	SW504	M5
C729	G12	JP03	H1	SW505	M4
C732	F12	JP04	H1	SW901	A11
C751	C1	JP05	D2	TU701	A1
C755	D3	JP06	D2	X301	F7
C7M2	C1	JP07	D2	X302	G7
C7S1	D1	JP08	D3	X501	M8
C7S2	E1	L201	I11	X502	M7
C7V1	L4	L301	E10	X751	F12
C7V3	L4	L302	E5	ZD901	A2
C806	C9	L303	F6	ZD902	A2

MEMO

Handwriting practice area for the left page, featuring 25 horizontal dotted lines.

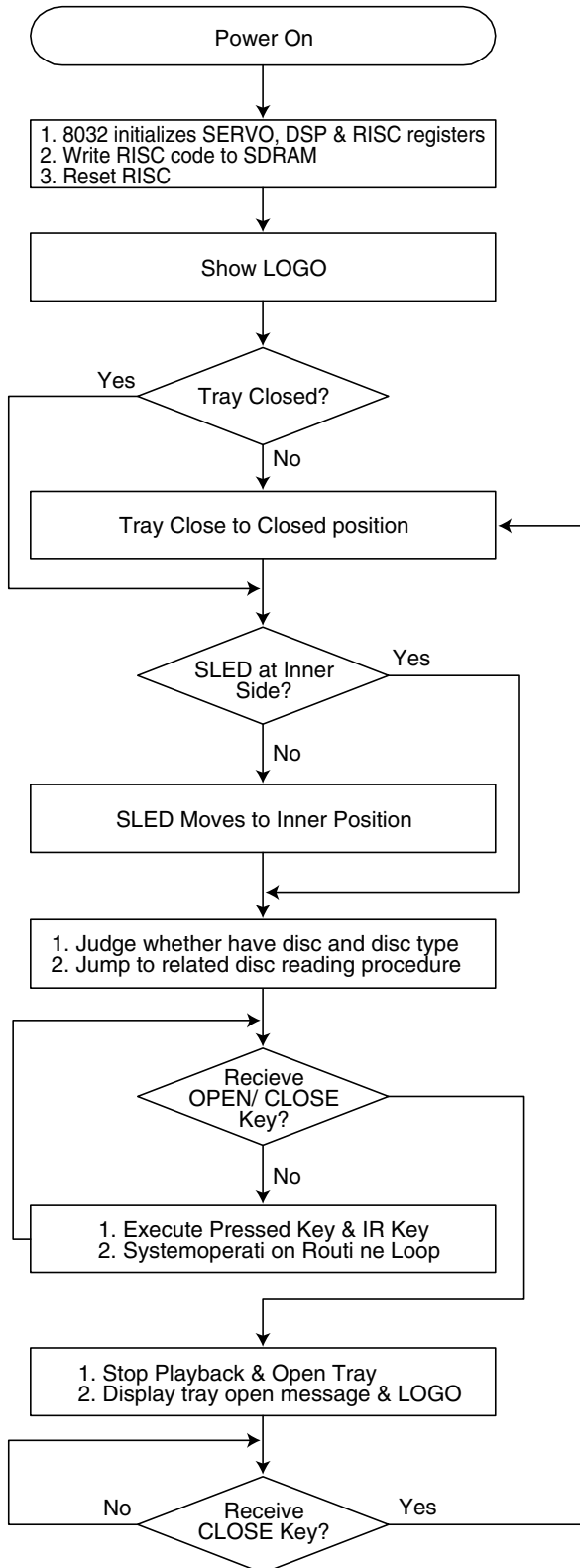
MEMO

Handwriting practice area for the right page, featuring 25 horizontal dotted lines.

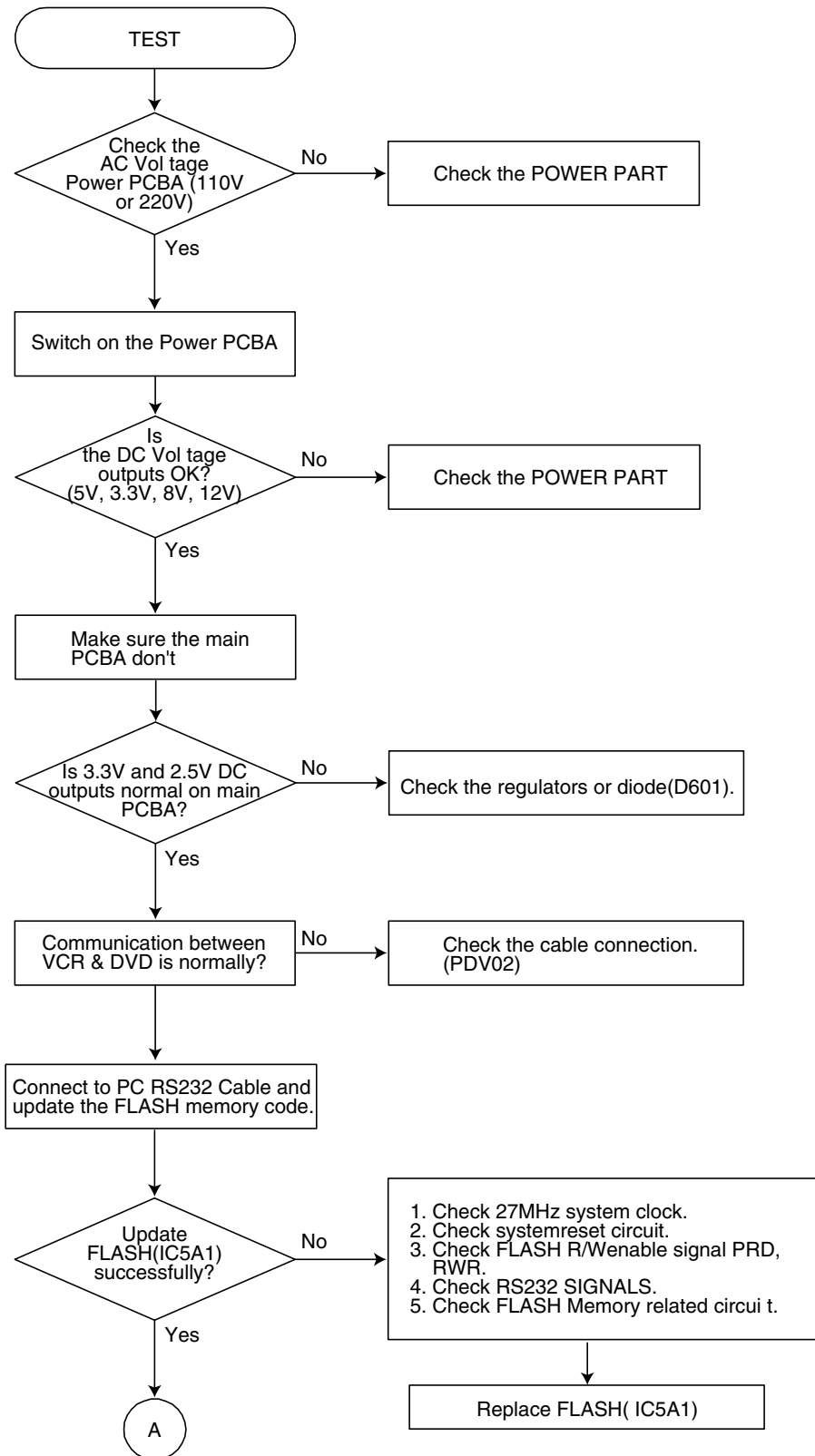
DVD PART

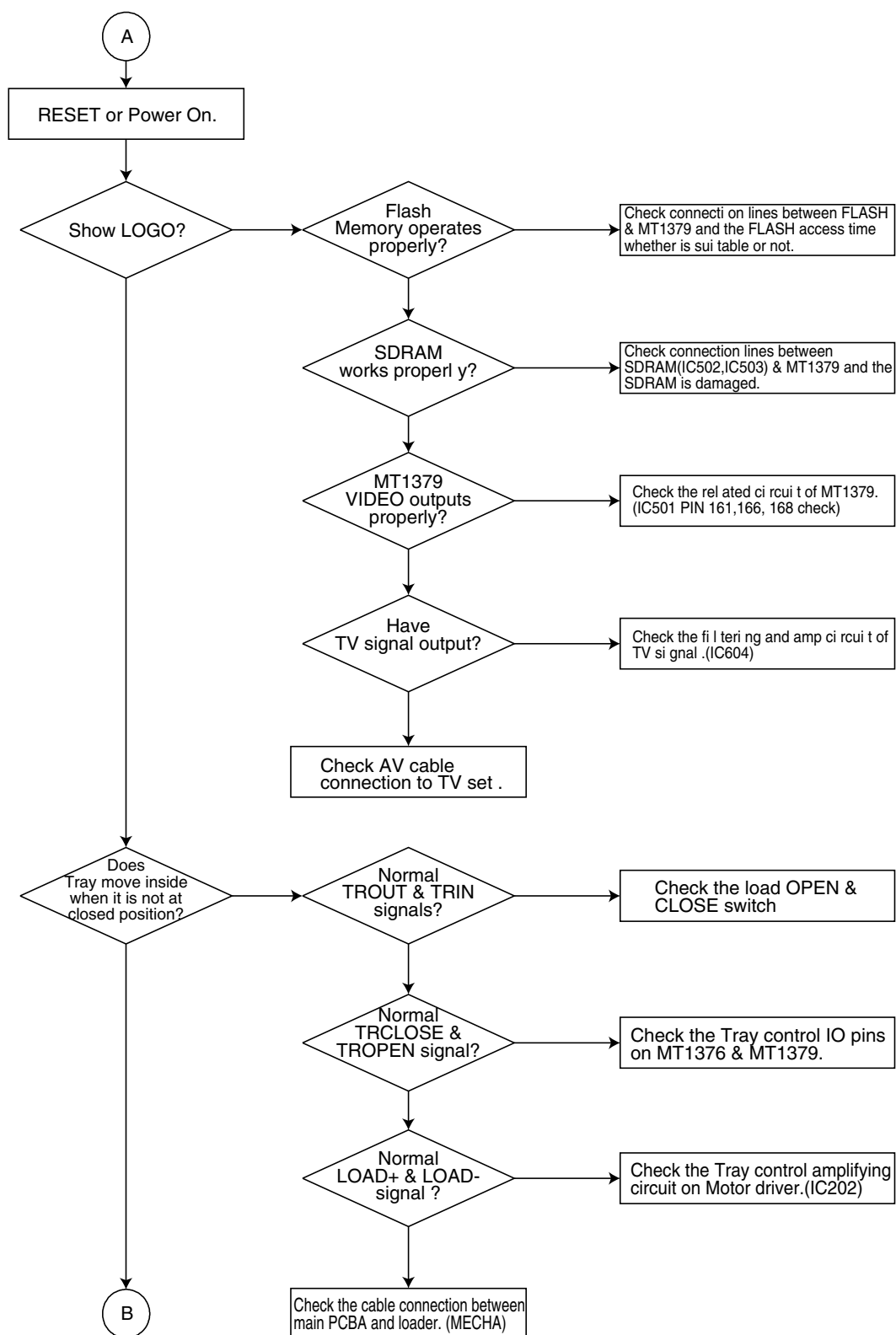
ELECTRICAL TROUBLESHOOTING GUIDE

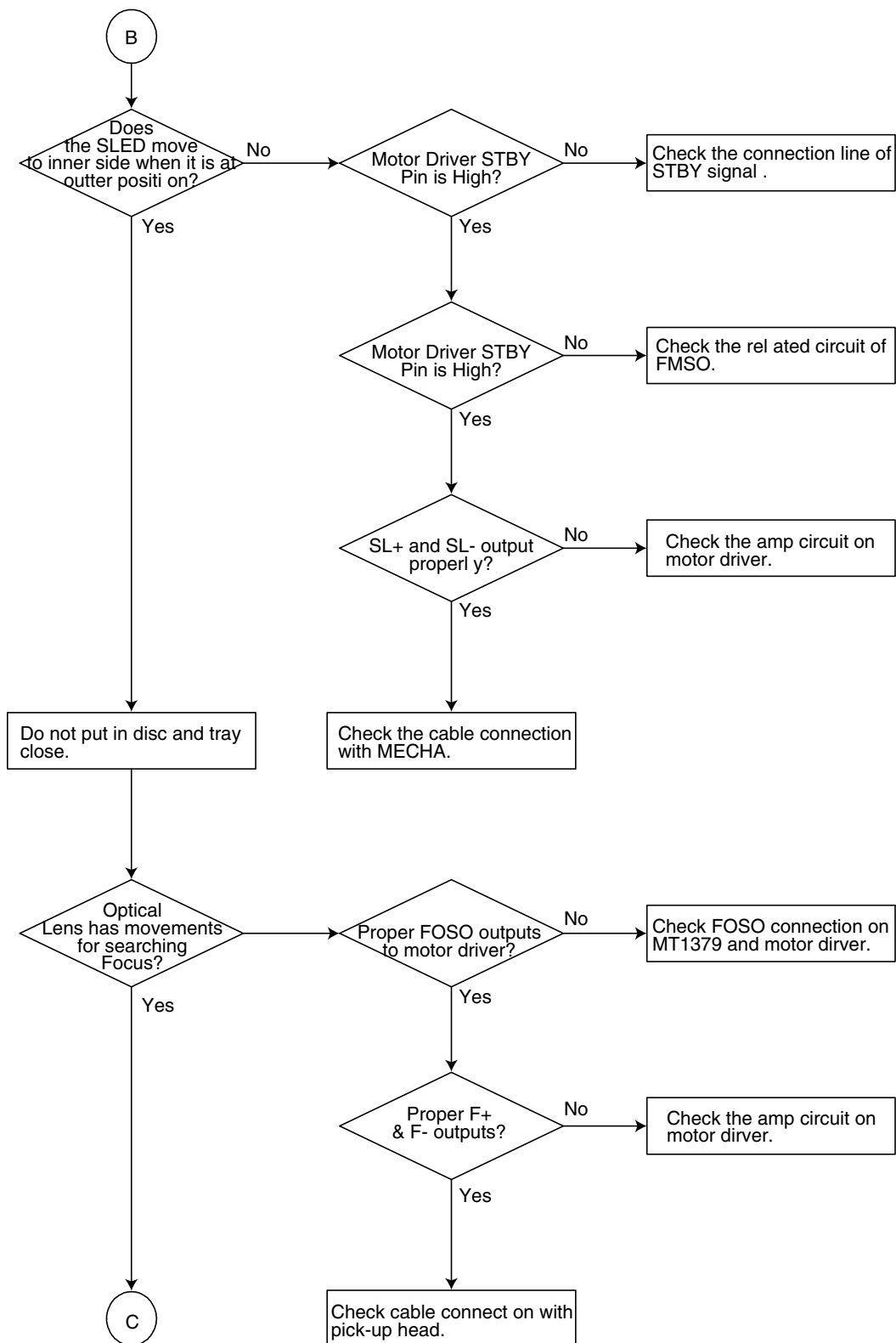
1. System operation flow

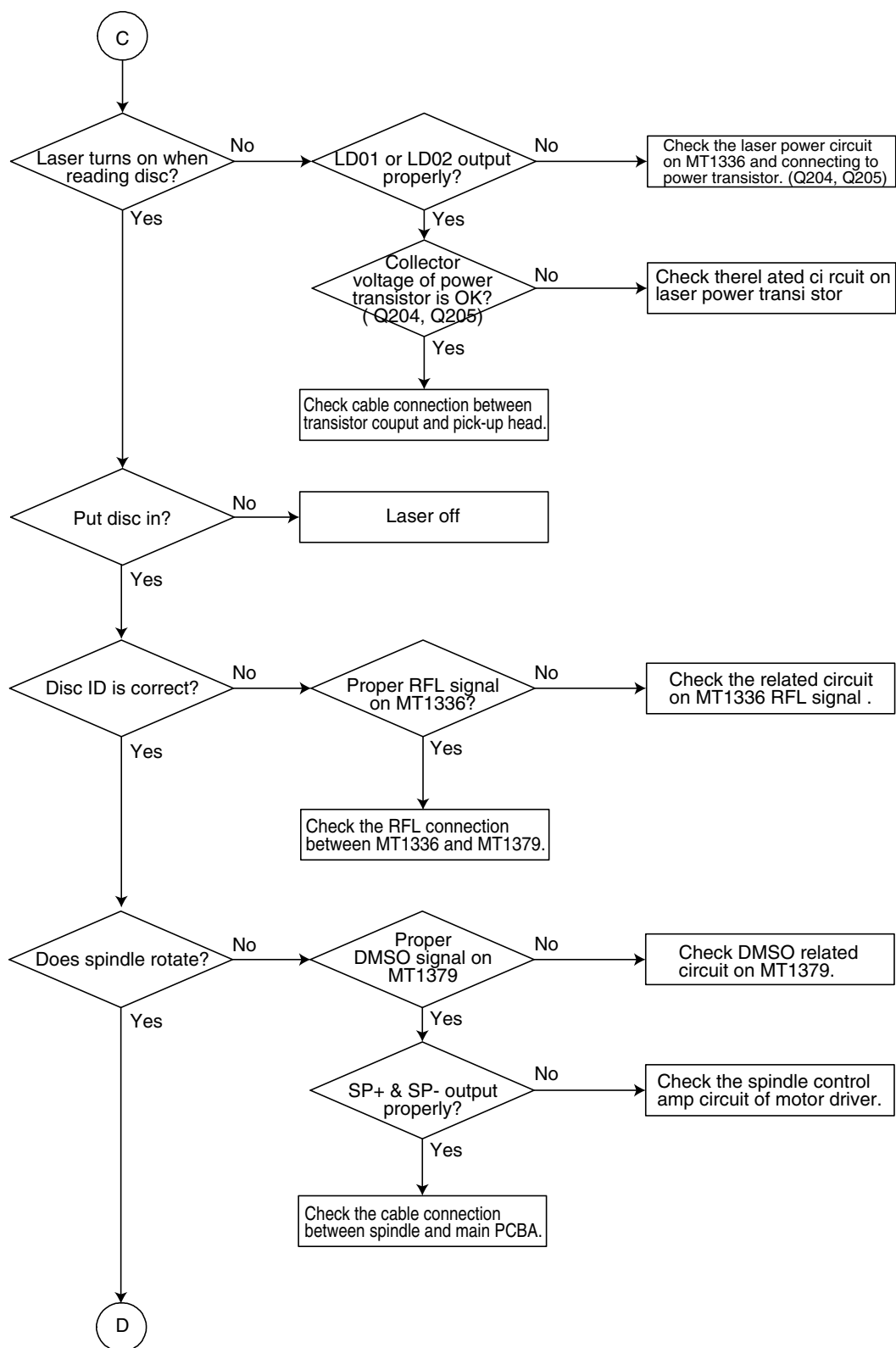


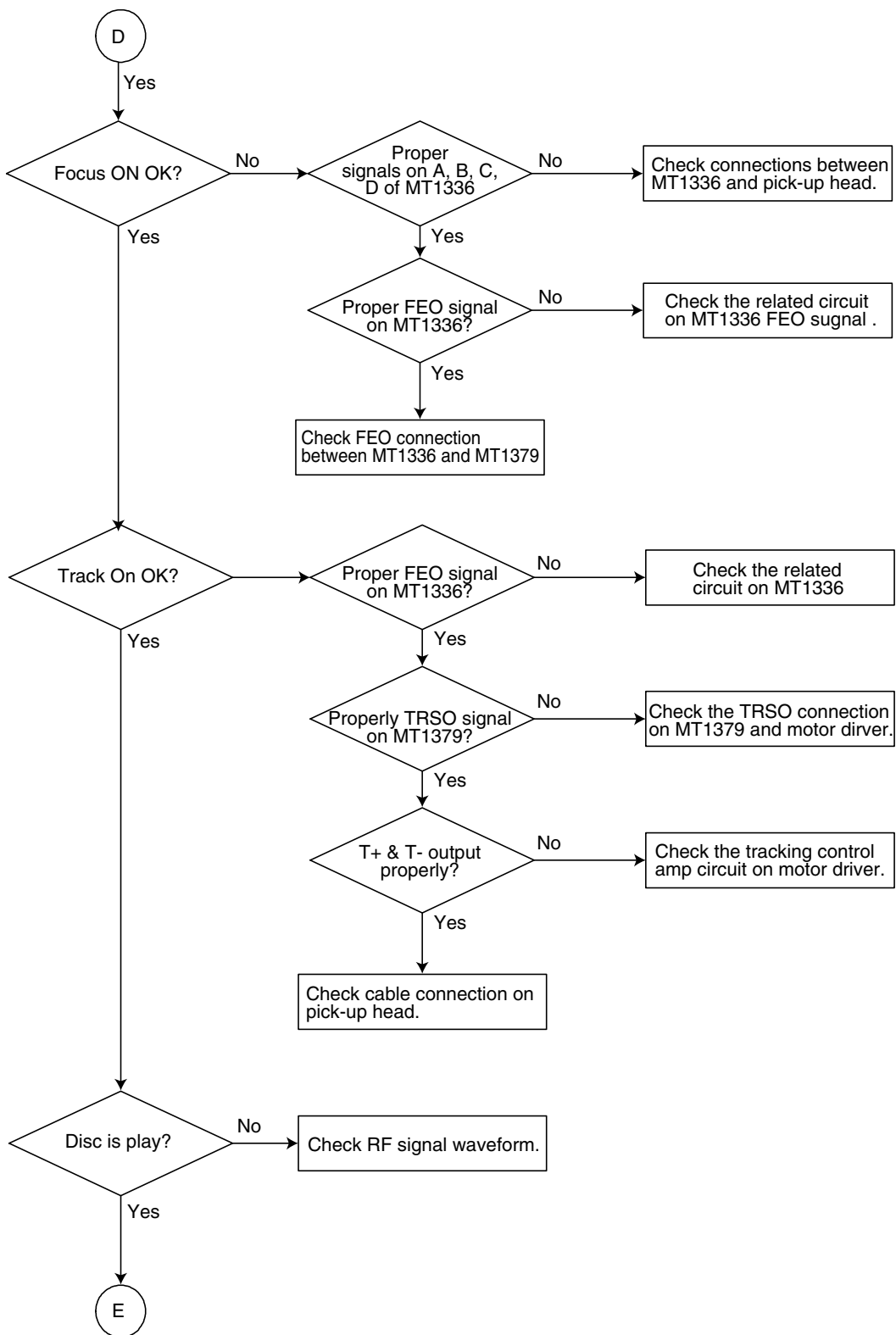
2. Test & debug flow

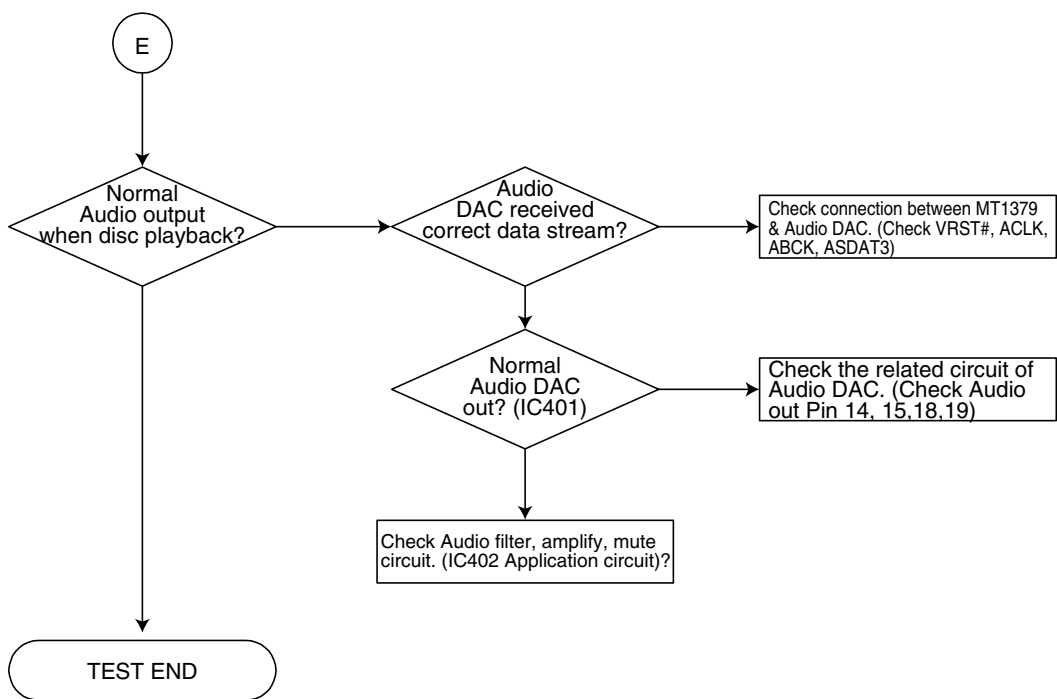












DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

1. SYSTEM 27MHz CLOCK,RESET,FLASH R/W SIGNAL

1) MT1379 main clock is at 27MHz(X501)

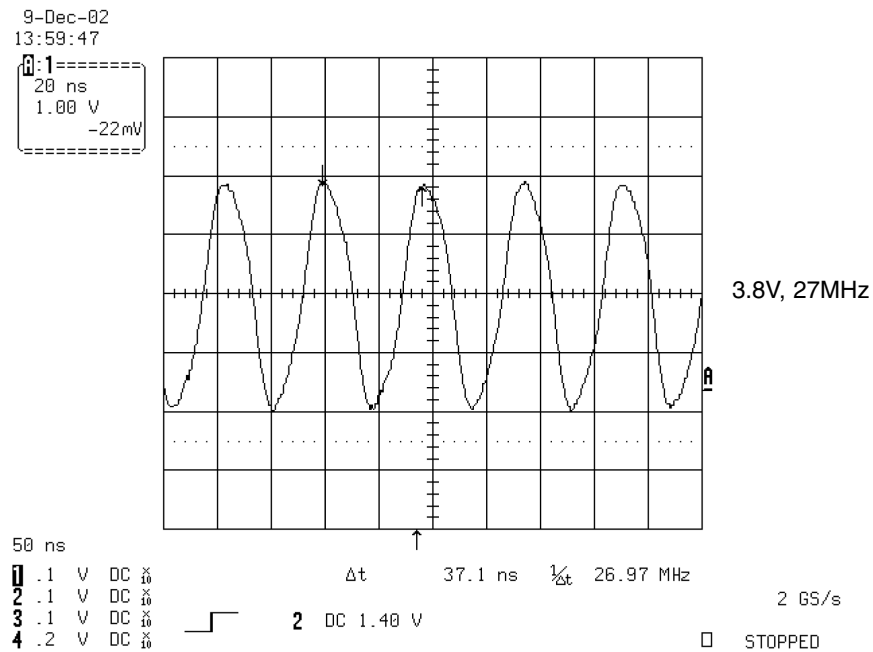


FIG 1-1

2) MT1379 & MT1336 reset is high active.

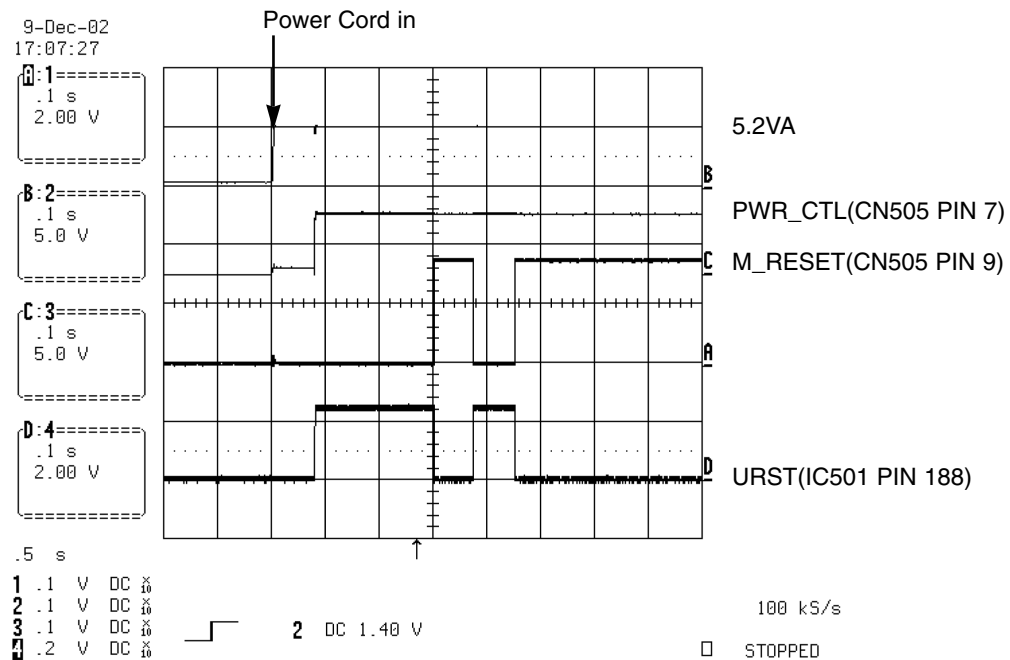


FIG 1-2

3) RS232 waveform during procedure(Downloading)

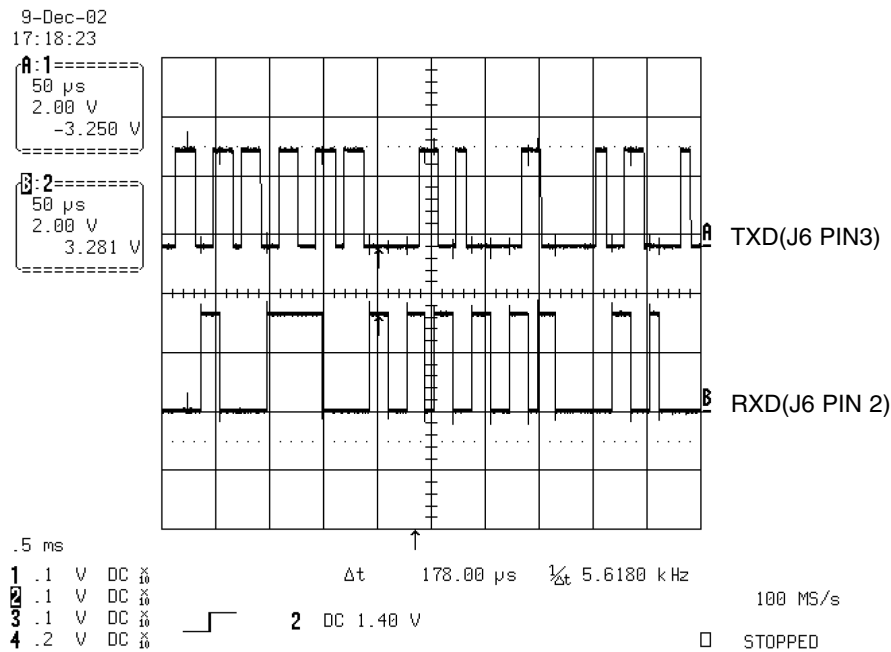


FIG 1-3

4) Flash R/W enable signal during download(Downloading)

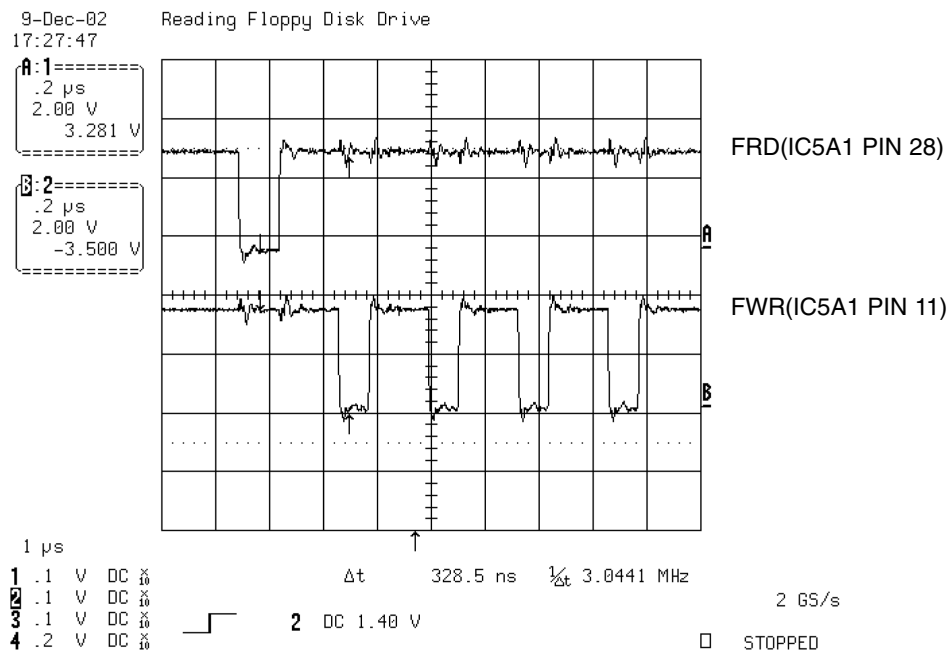


FIG 1-4

2. SDRAM CLOCK

1) MT1379 main clock is at 27MHz(X501)

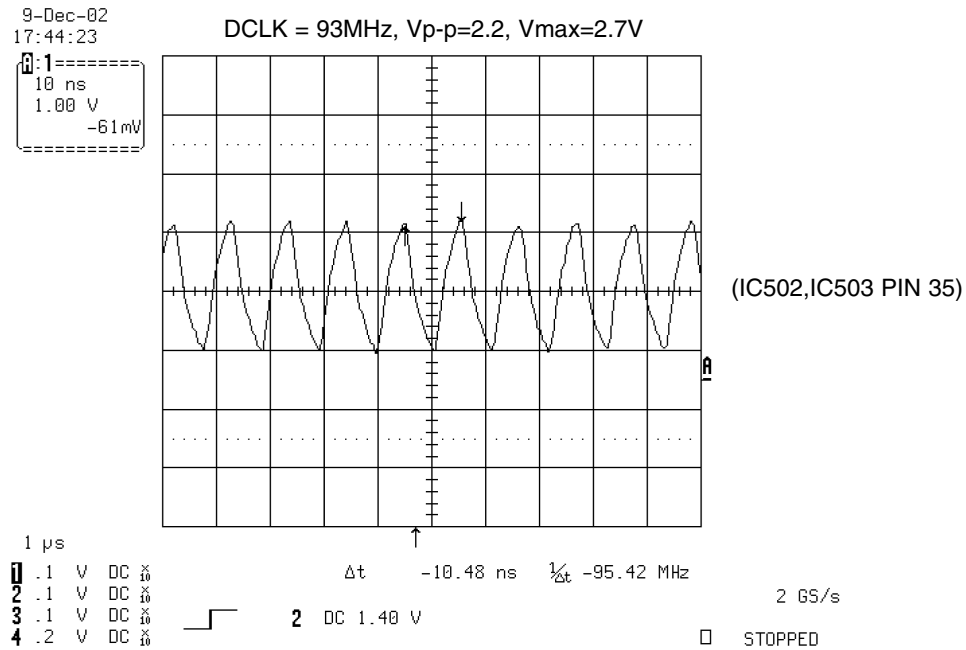


FIG 2-1

3. TRAY OPEN/CLOSE SIGNAL

1) Tray open/close waveform

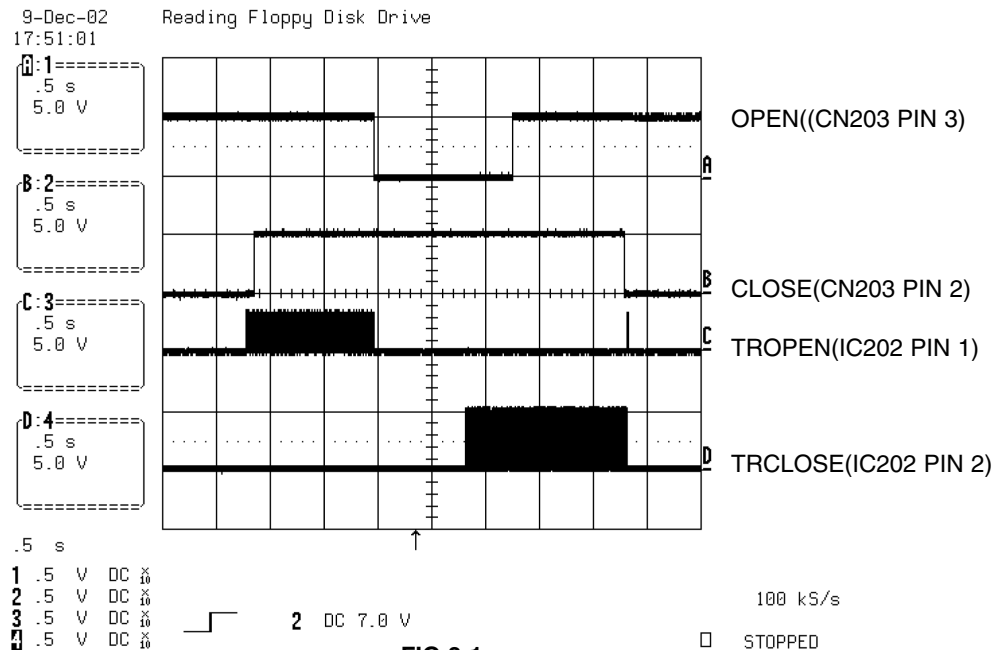


FIG 3-1

2) Tray close waveform

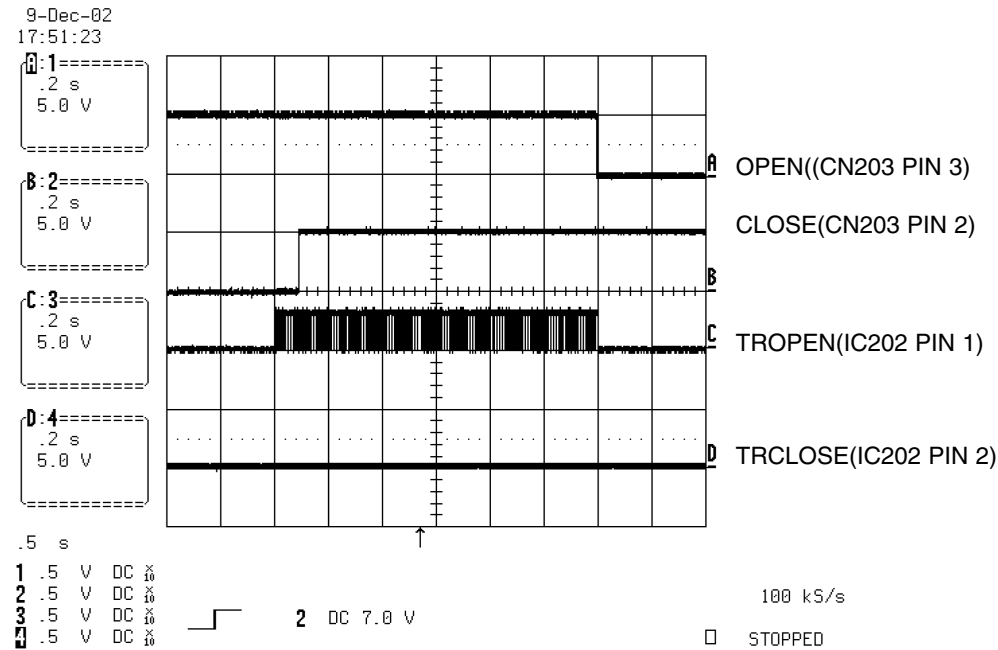


FIG 3-2

3) Tray open waveform

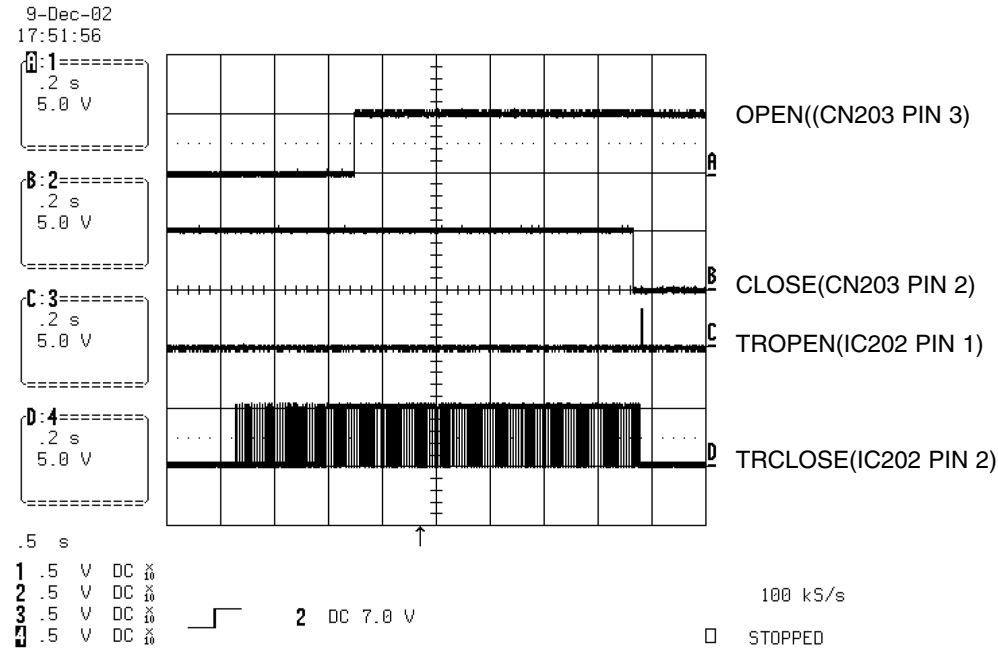


FIG 3-3

4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)

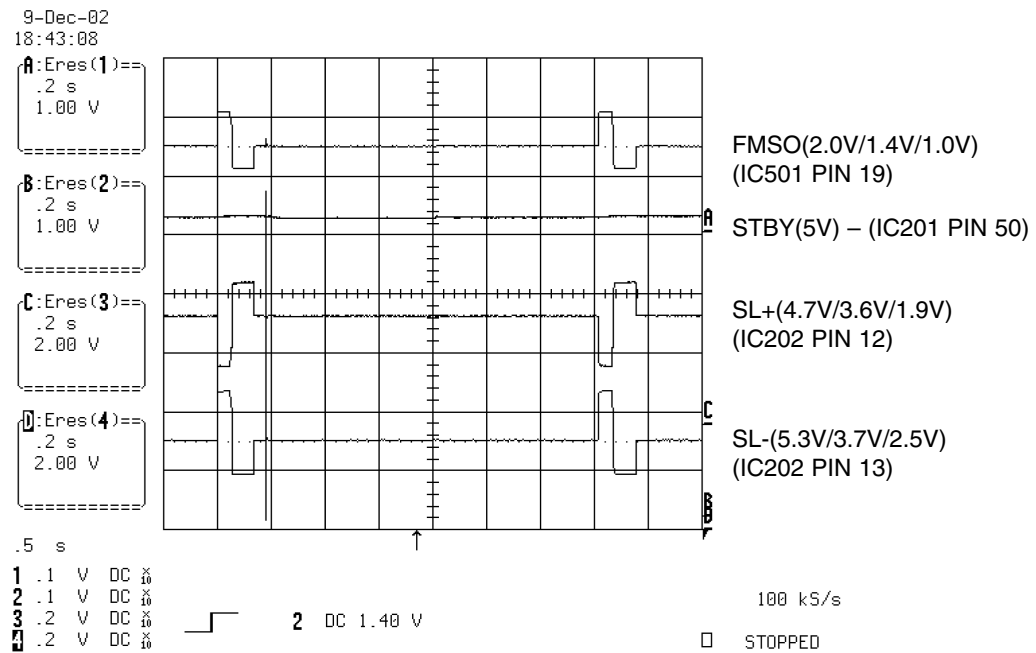


FIG 4-1

5. LENS CONTROL RELATED SIGNAL(NO DISC CONDITION)

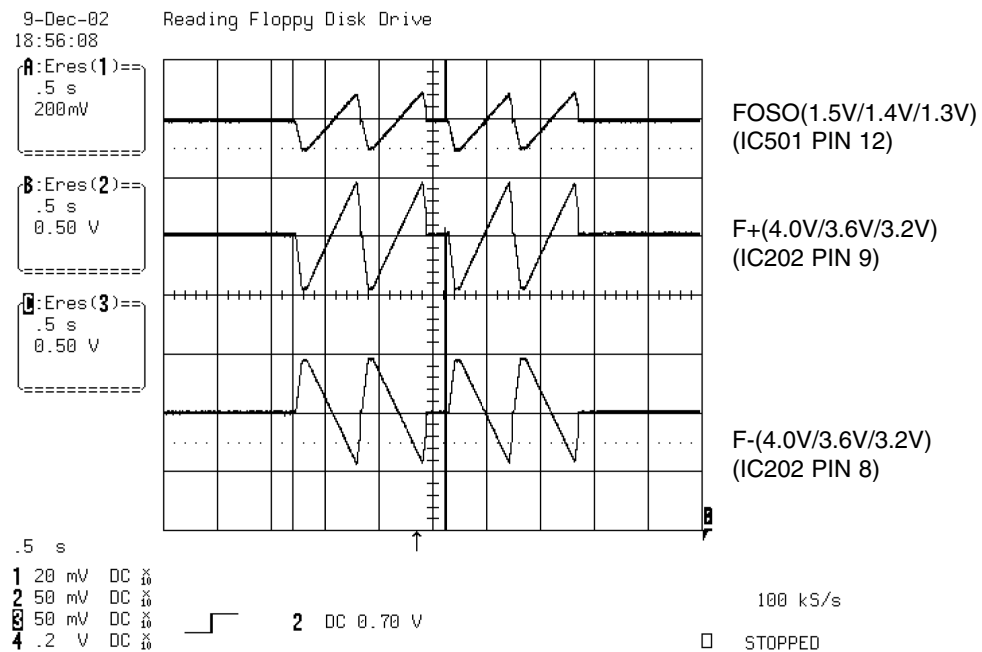


FIG 5-1

6. LASER POWER CONTROL RELATED SIGNAL(NO DISC CONDITION)

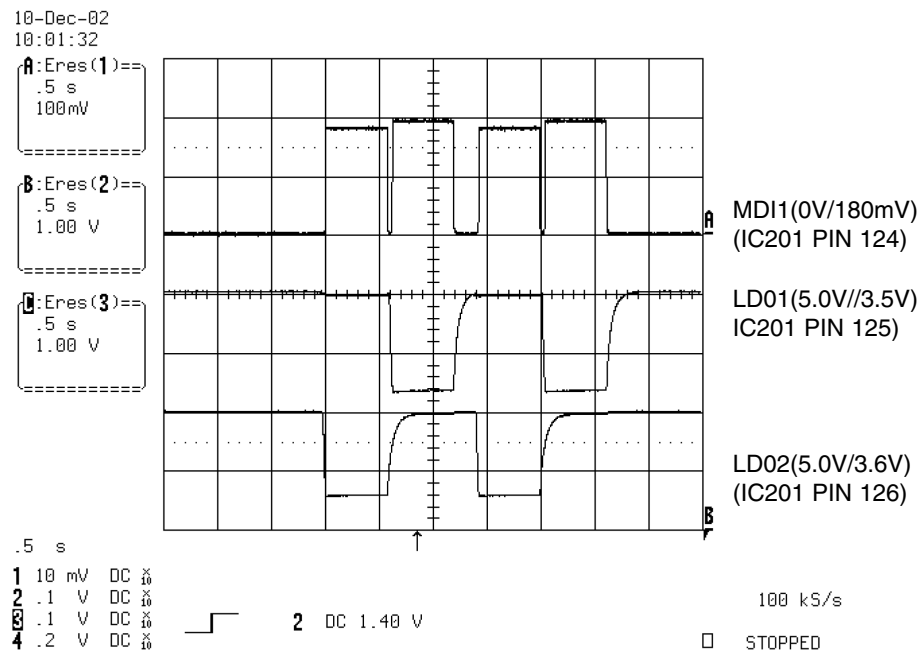


FIG 6-1

7. DISC TYPE JUDGEMENT WAVEFORM

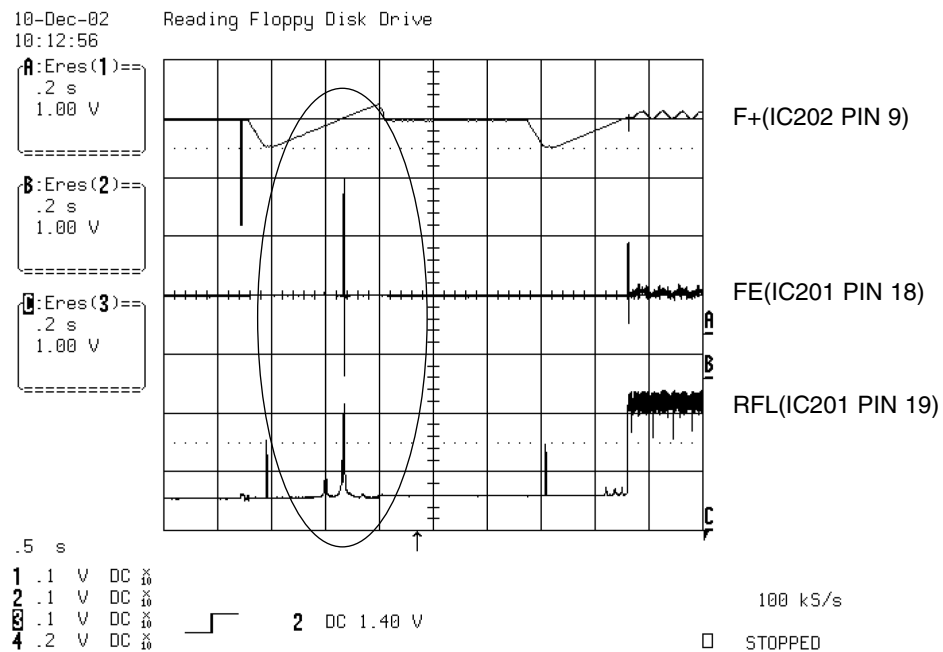


FIG 7-1 (DVD)

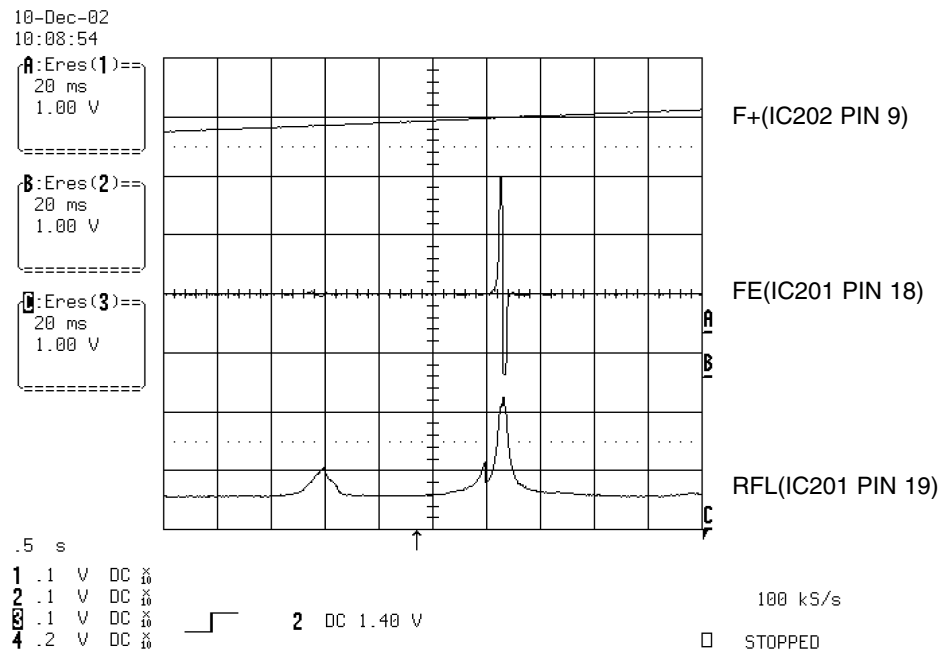


FIG 7-2 (DVD)

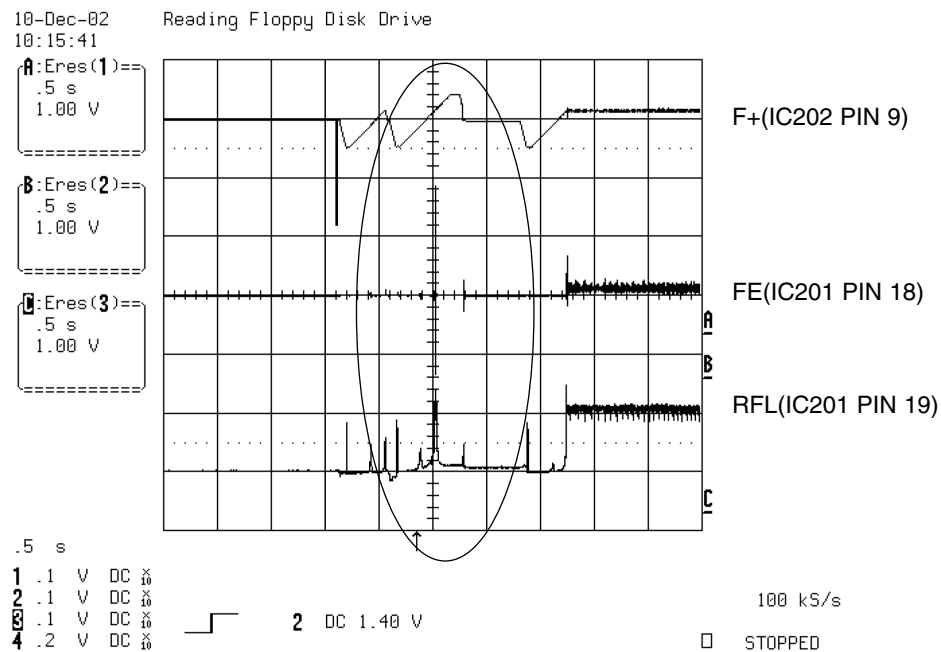


FIG 7-3 (CD)

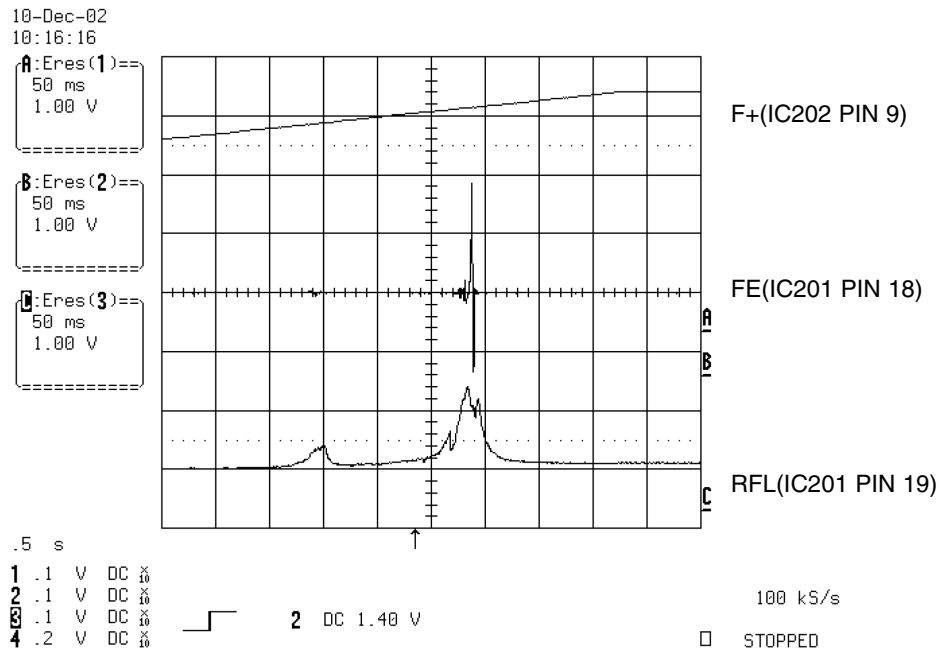


FIG 7-4 (CD)

8. FOCUS ON WAVEFORM

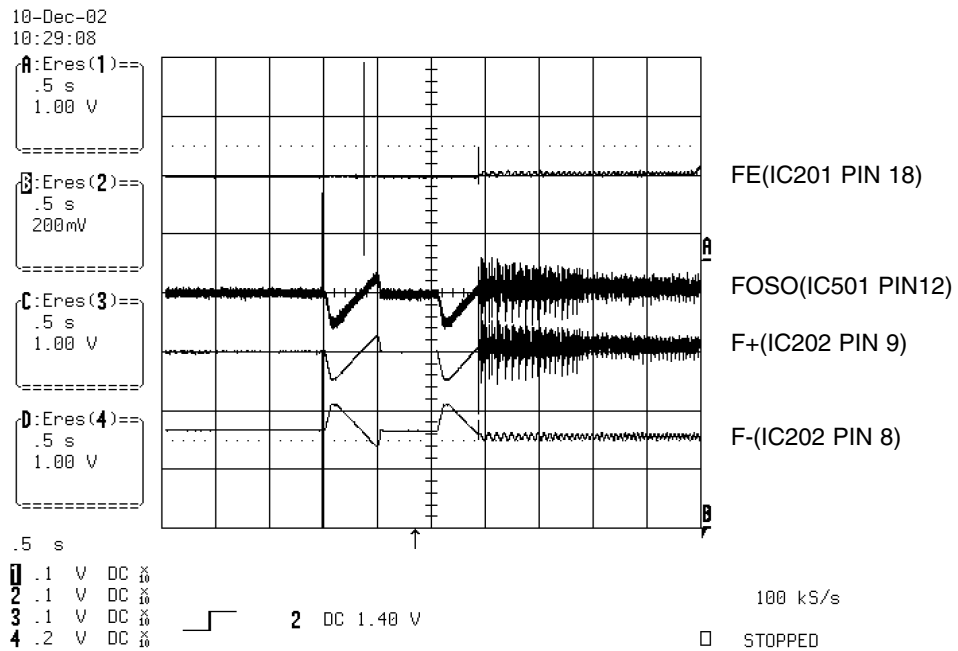


FIG 8-1 (DVD)

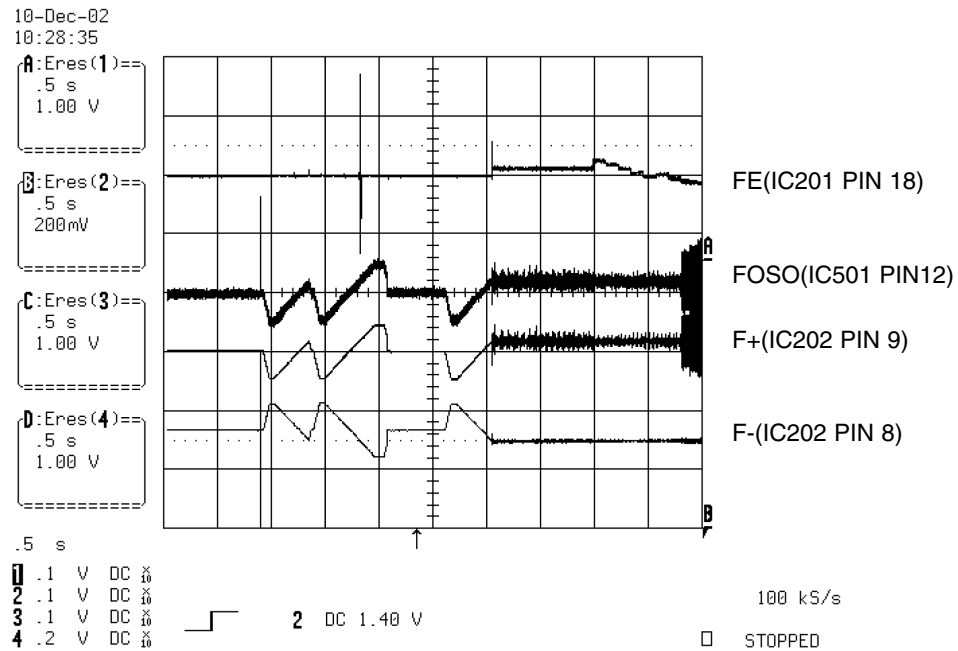


FIG 8-2 (CD)

9. SPINDLE CONTROL WAVEFORM (NO DISC CONDITION)

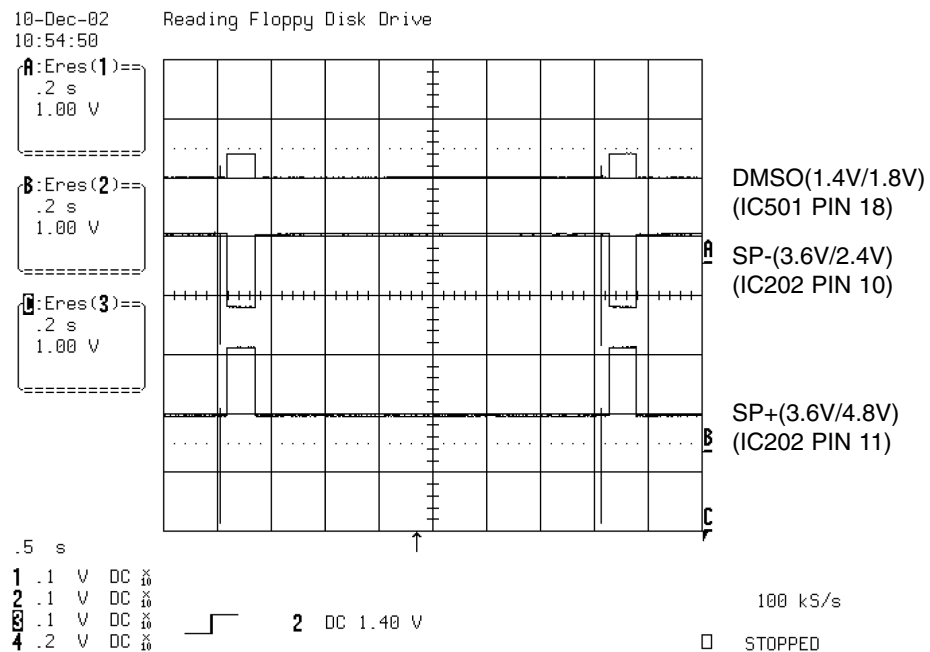


FIG 9-1

10. TRACKING CONTROL RELATED SIGNAL(System checking)

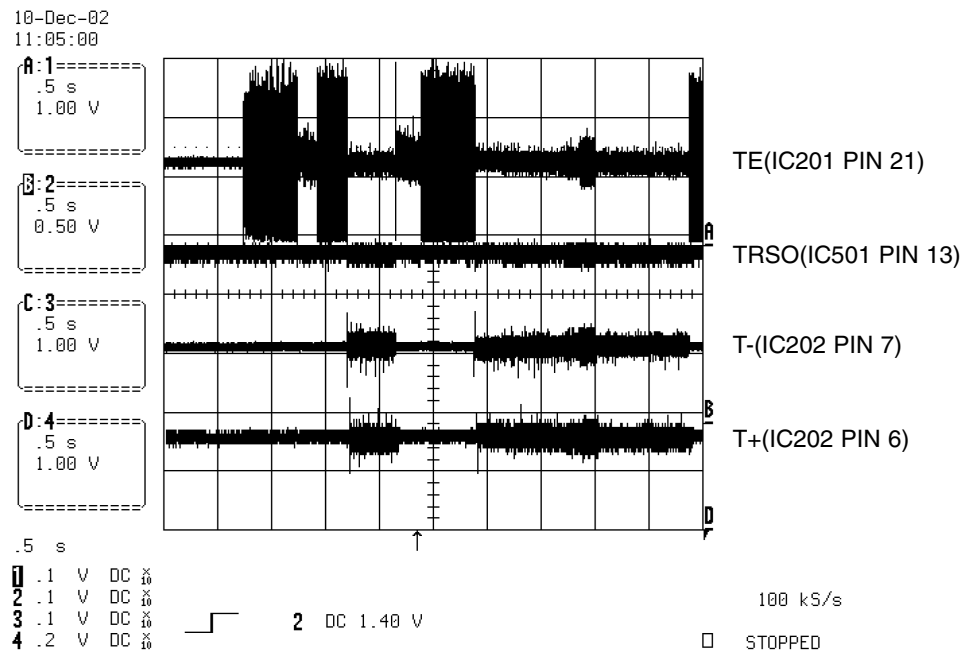


FIG 10-1(DVD)

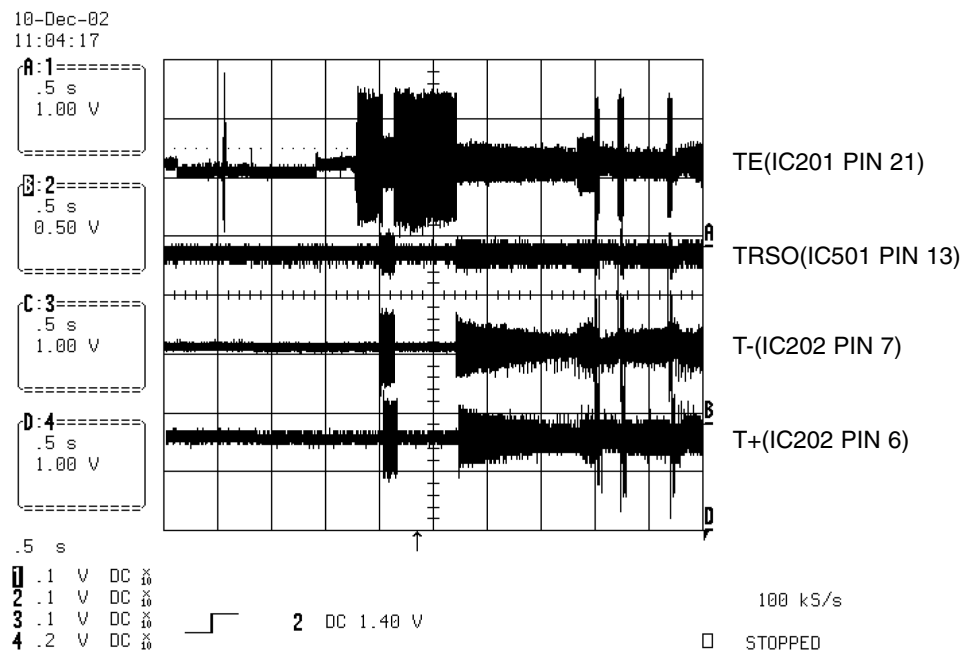


FIG 10-2(CD)

11. RF WAVEFORM

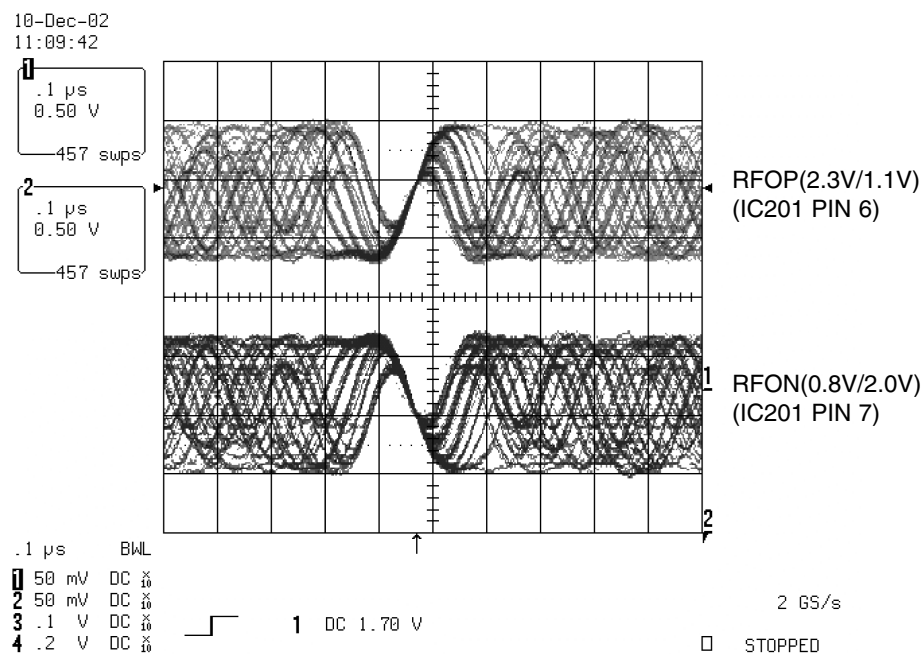


FIG 11-1

12. MT1379 AUDIO OPTICAL AND COAXIAL OUTPUT (ASPDIF)

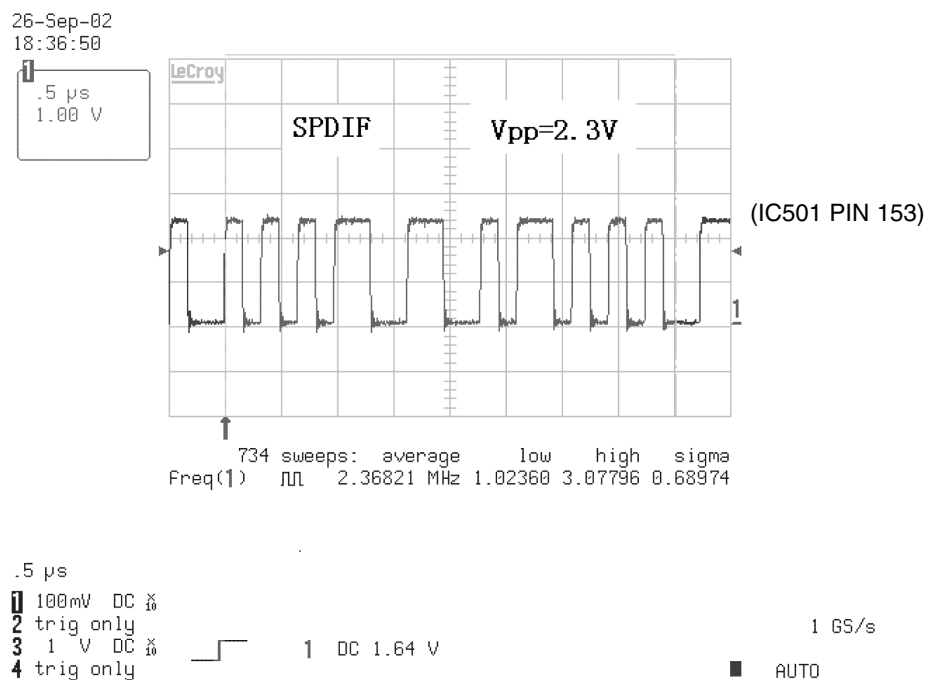


FIG 12-1

13. MT1379 VIDEO OUTPUT WAVEFORM

1) Full colorbar signal(CVBS)

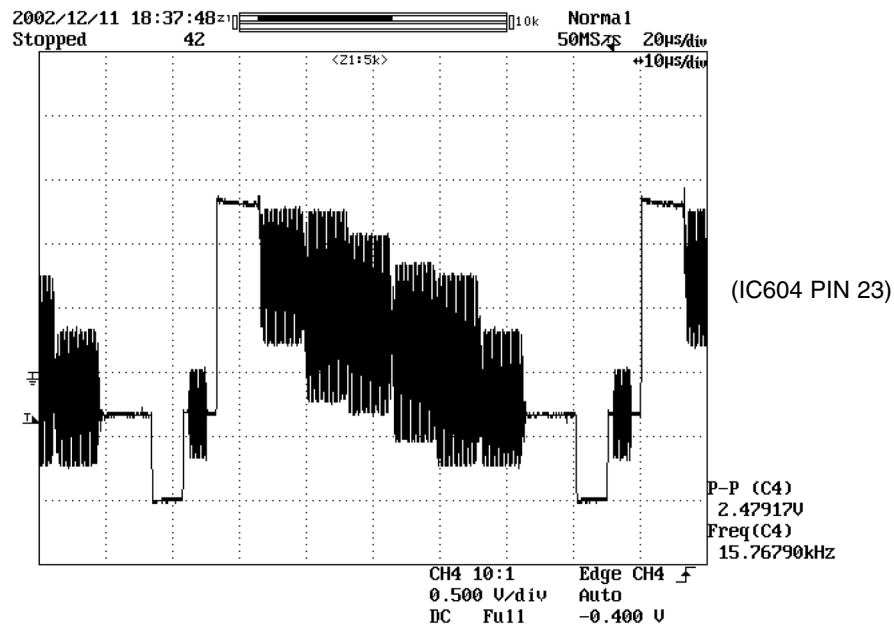


FIG 13-1

2) Y

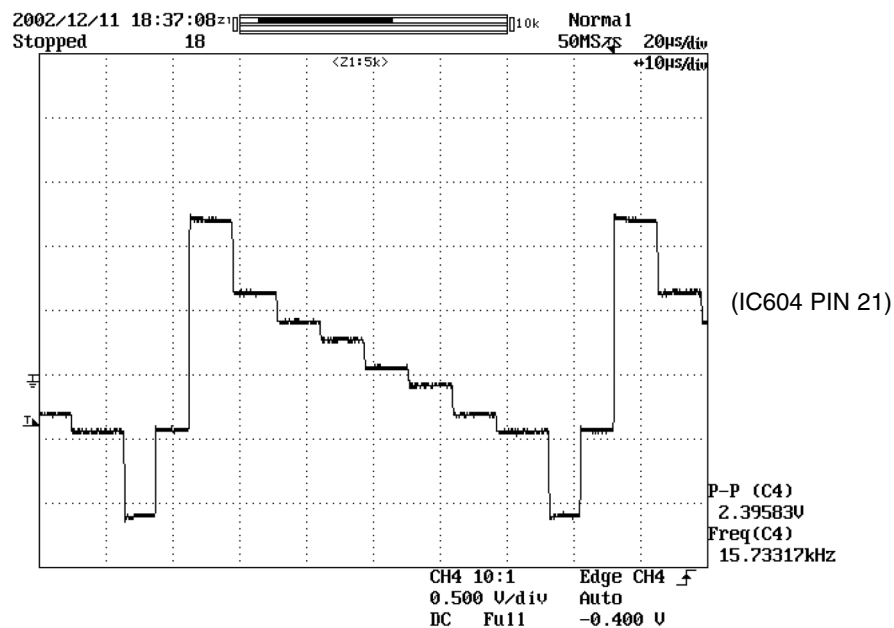


FIG 13-2

3) C

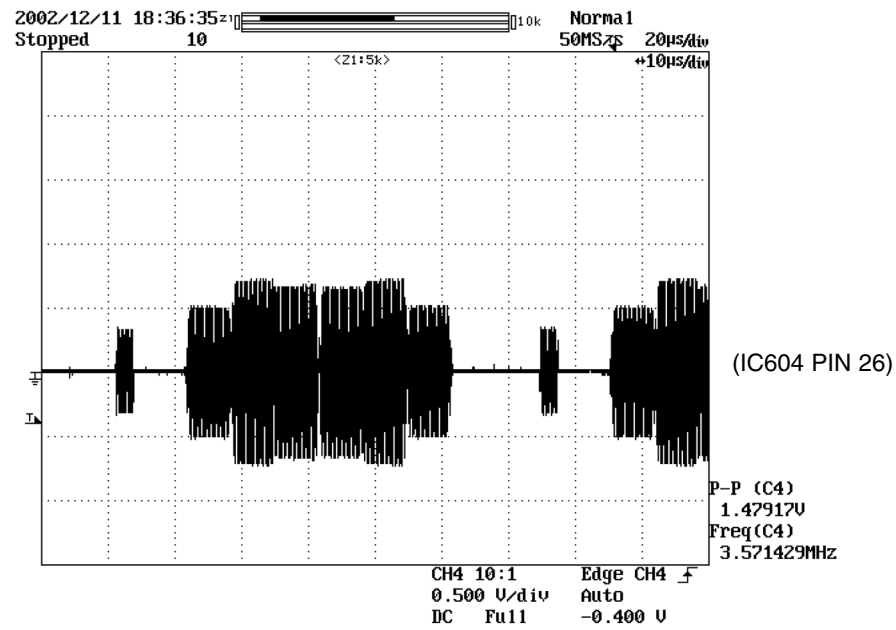


FIG 13-3

14. AUDIO OUTPUT FROM AUDIO DAC

1) Audio L/R

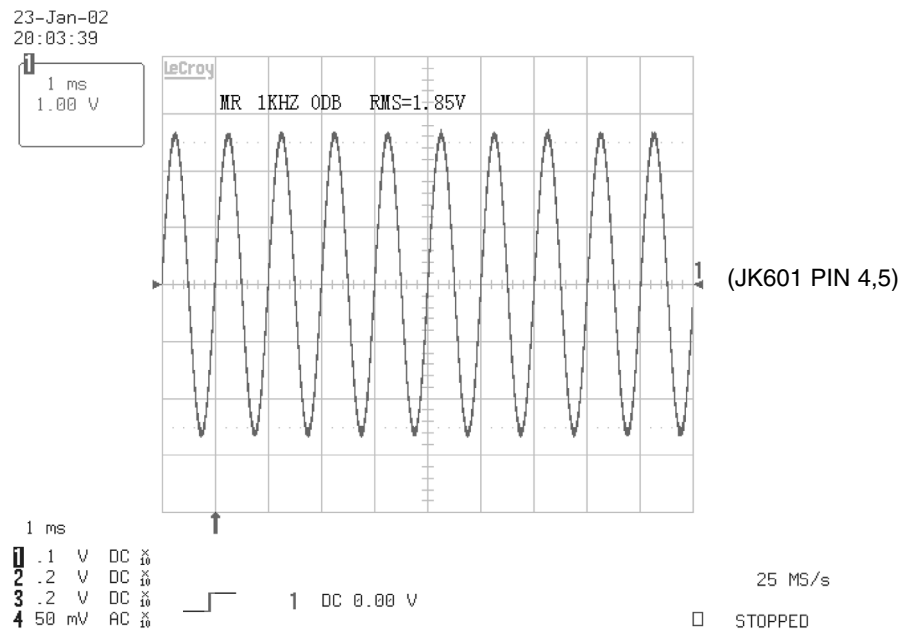


FIG 14-1

2) Audio related Signal

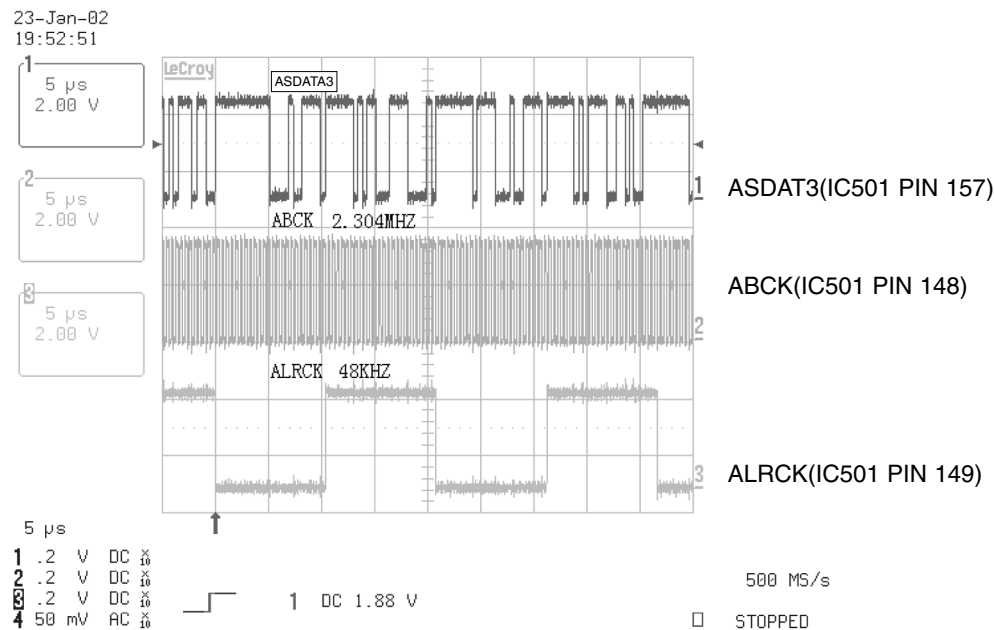
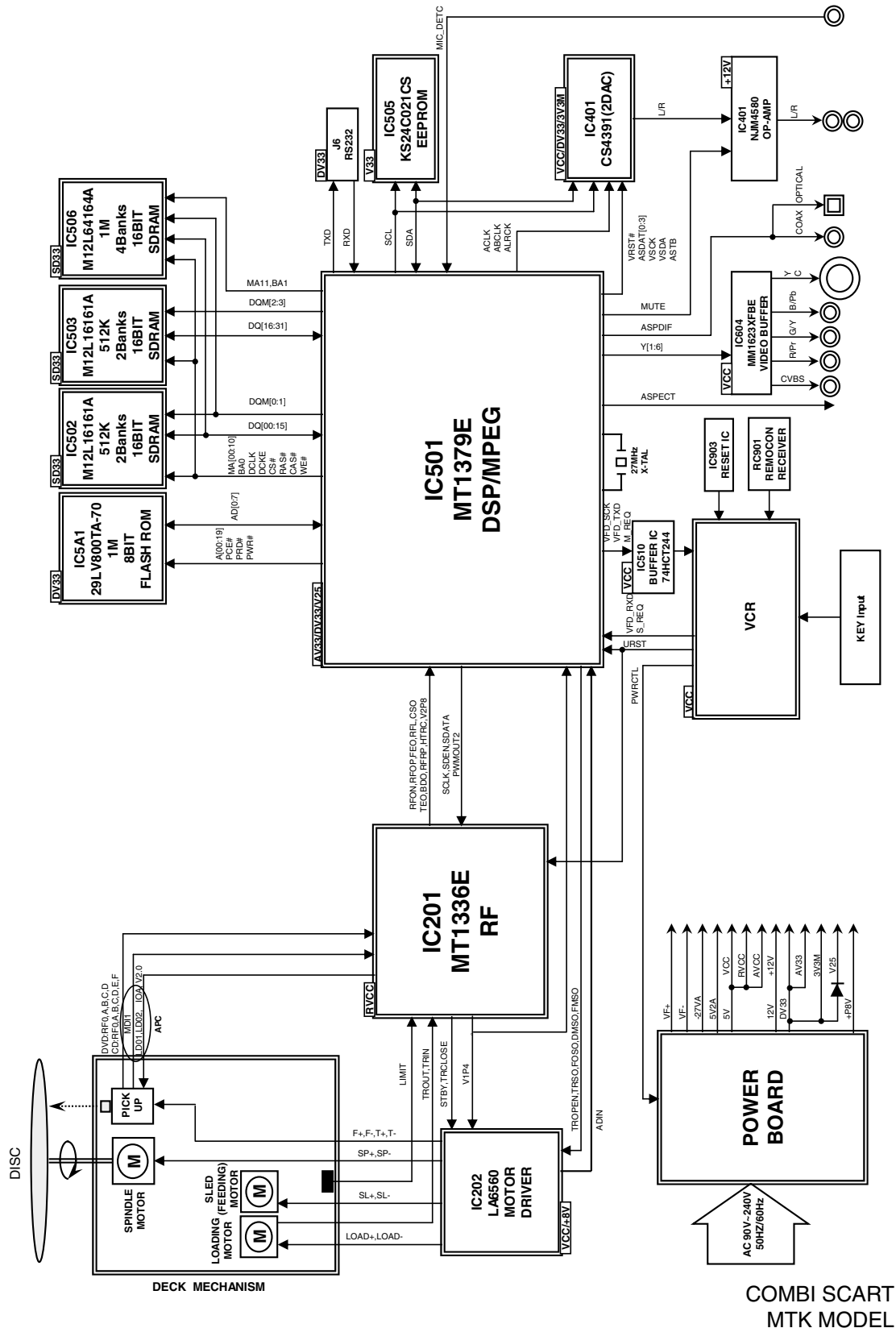


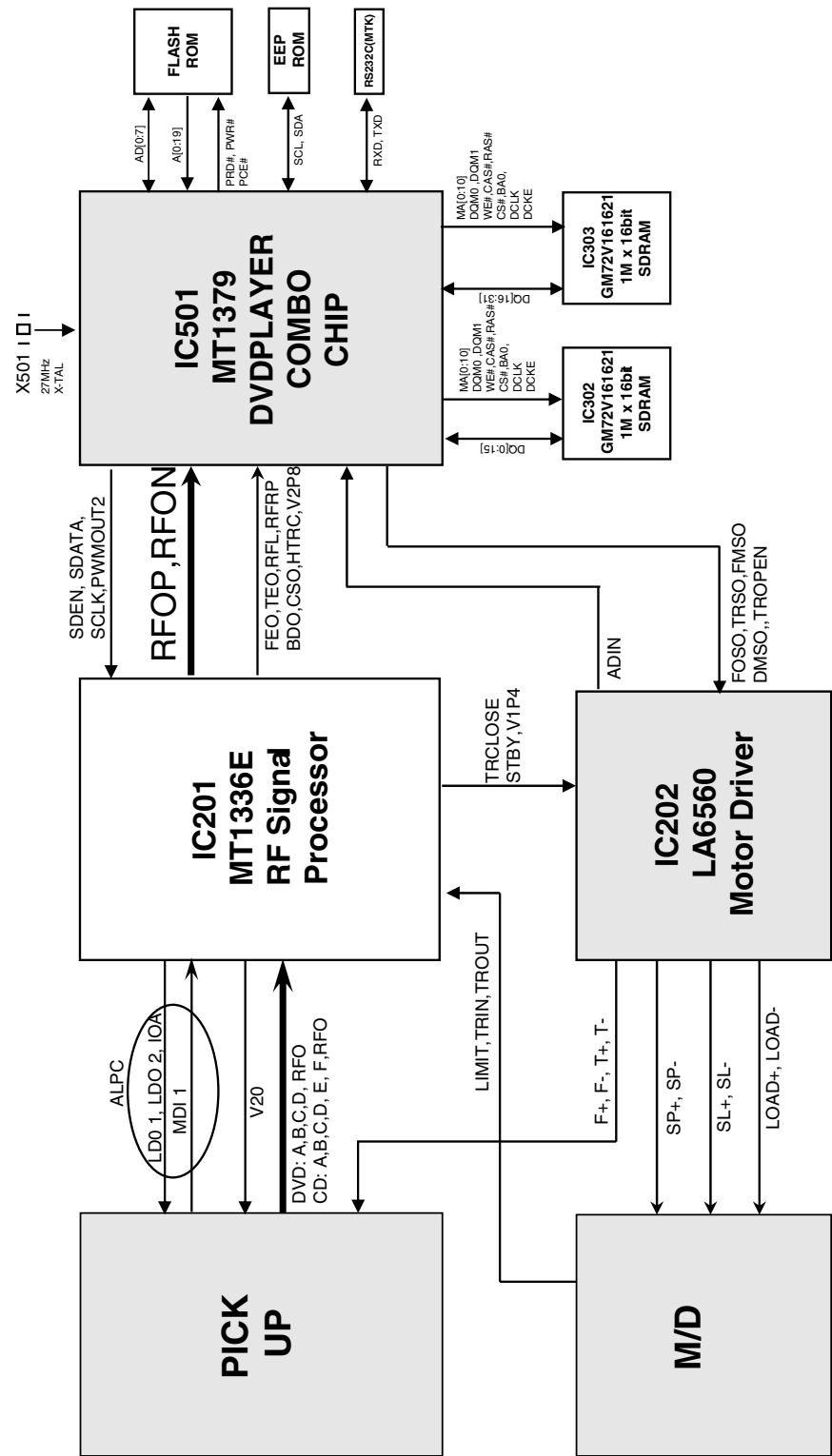
FIG 14-2

BLOCK DIAGRAMS

1. Overall Block Diagram

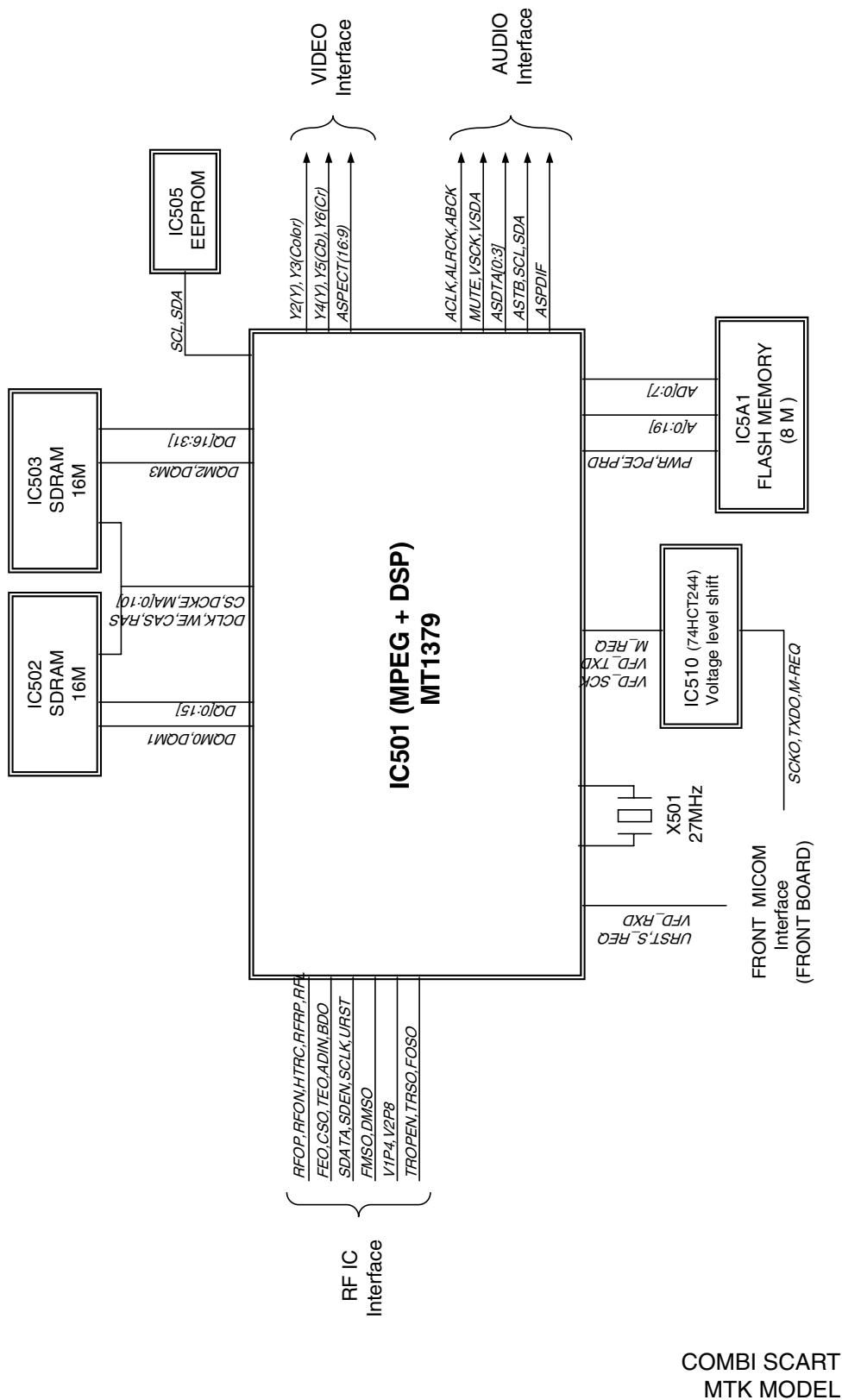


2. SERVO Block Diagram

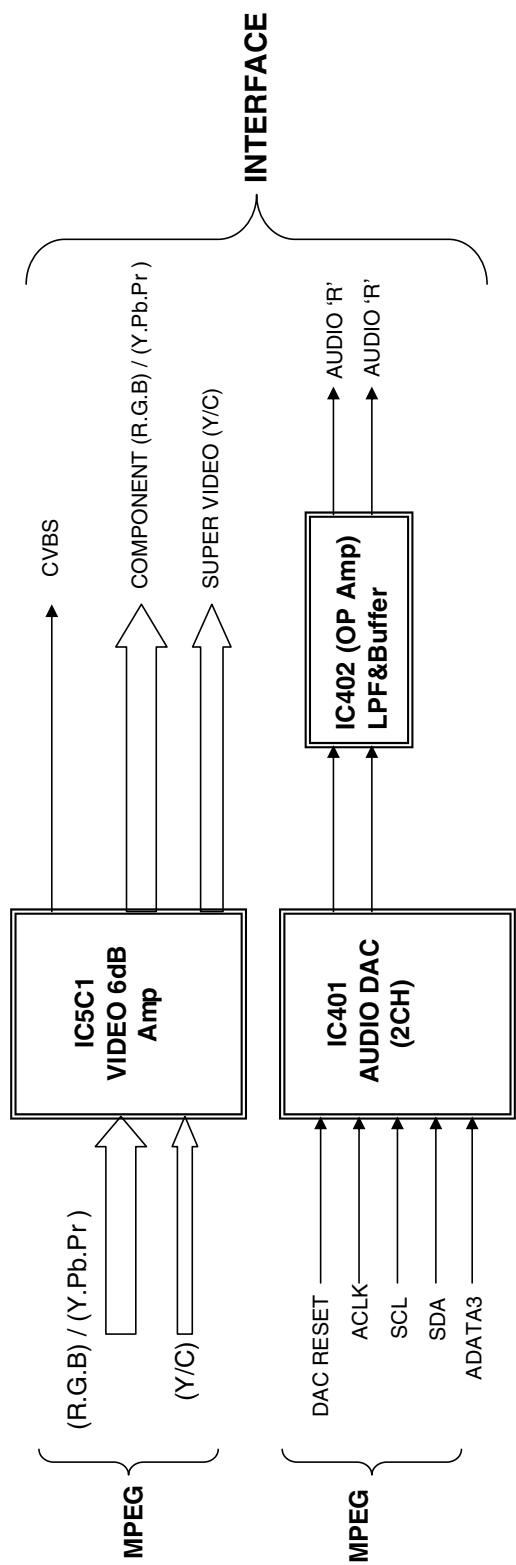


COMBI SCART
MTK MODEL

3. MPEG & MEMORY Block Diagram



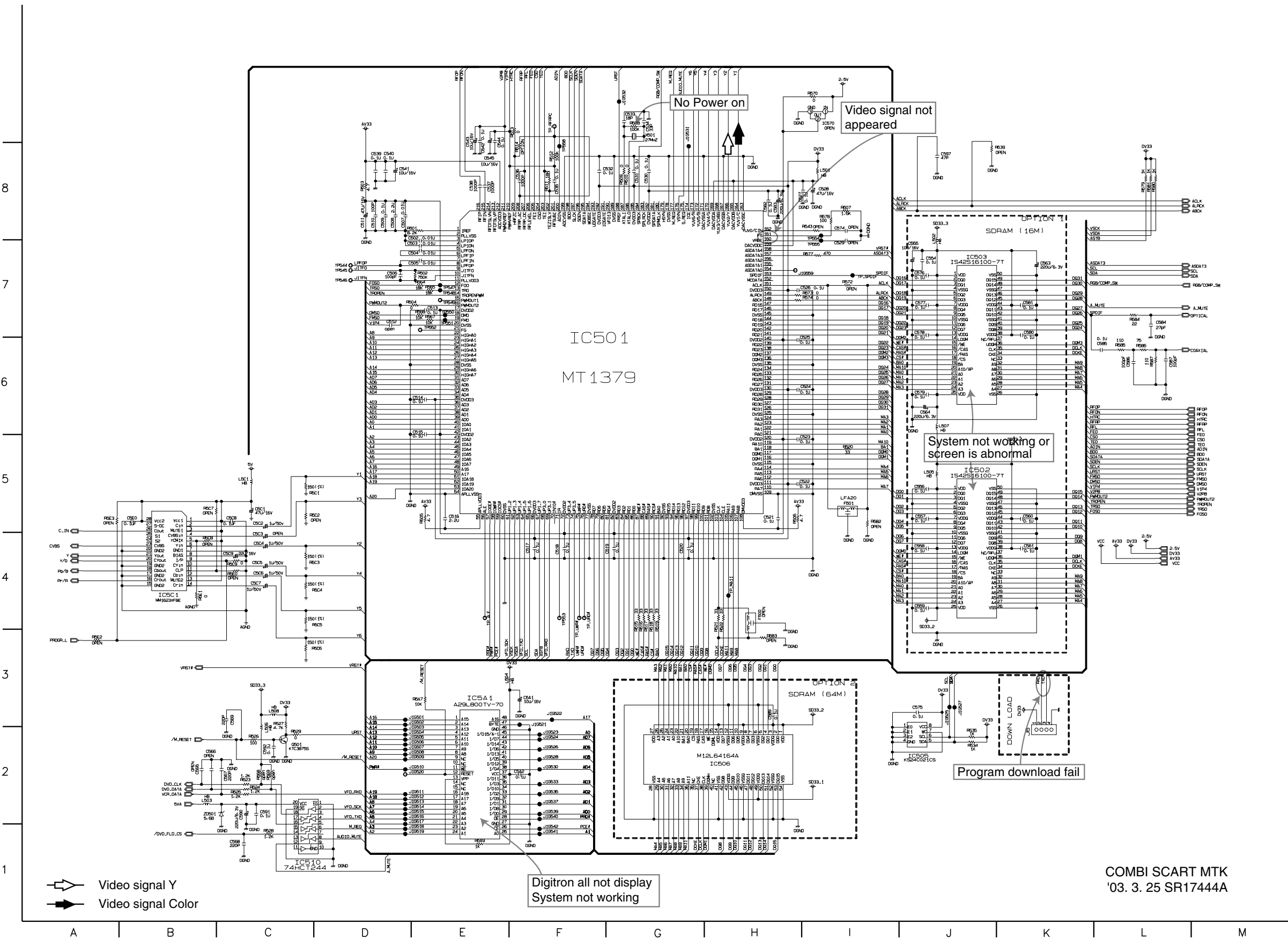
4. VIDEO & AUDIO Block Diagram



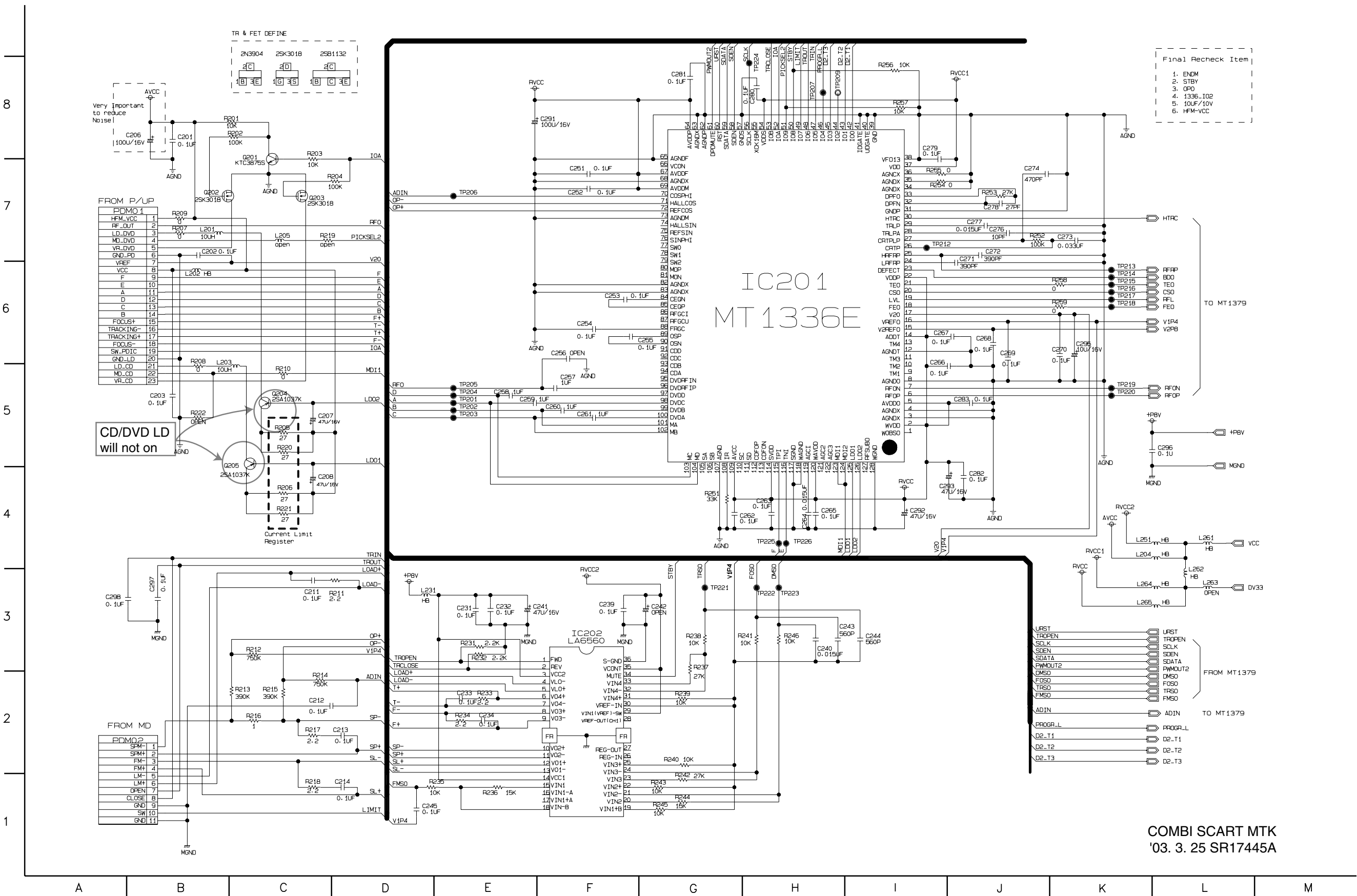
COMBI SCART
MTK MODEL

MEMO

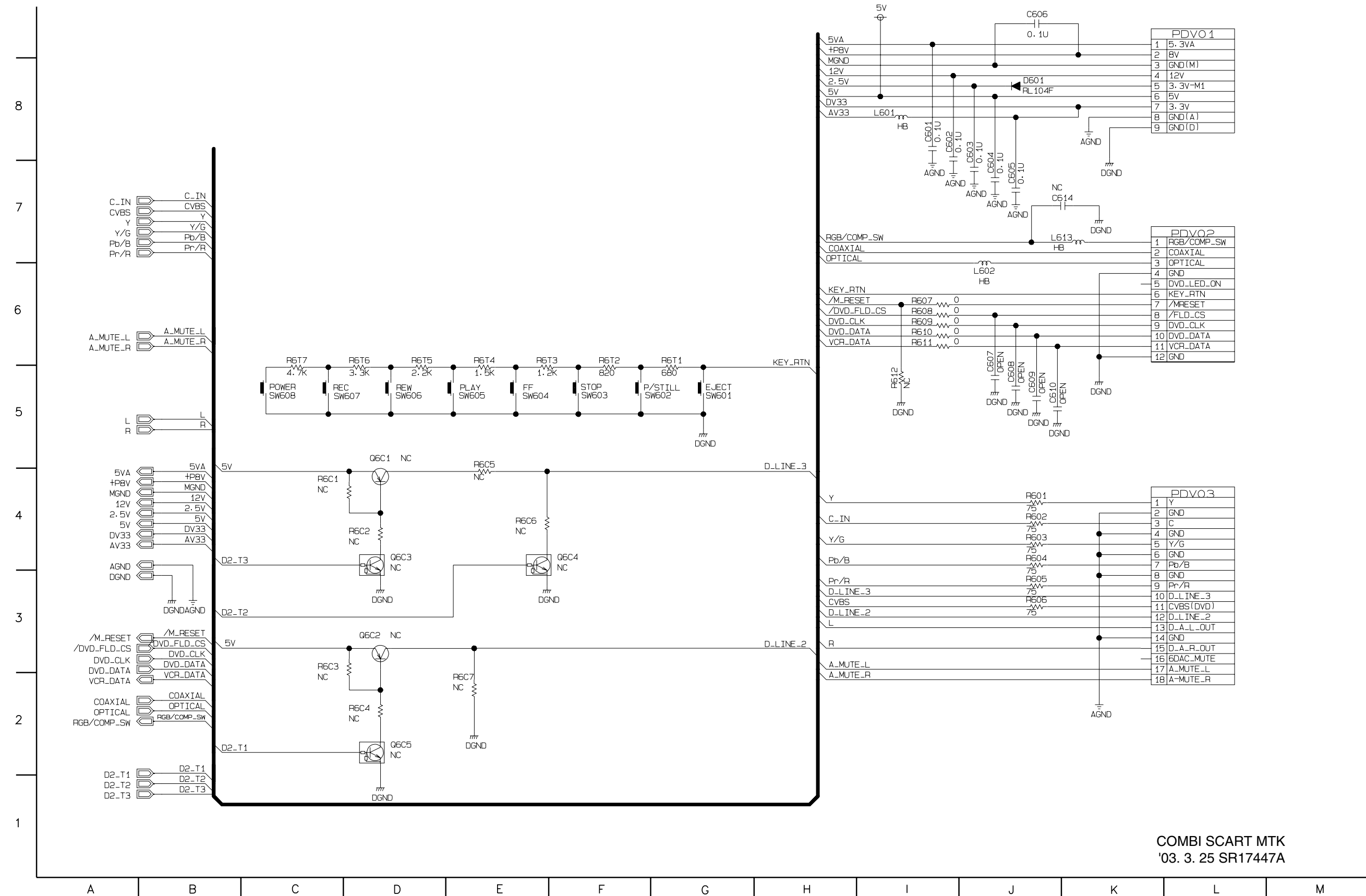
CIRCUIT DIAGRAMS
1. SYSTEM CIRCUIT DIAGRAM



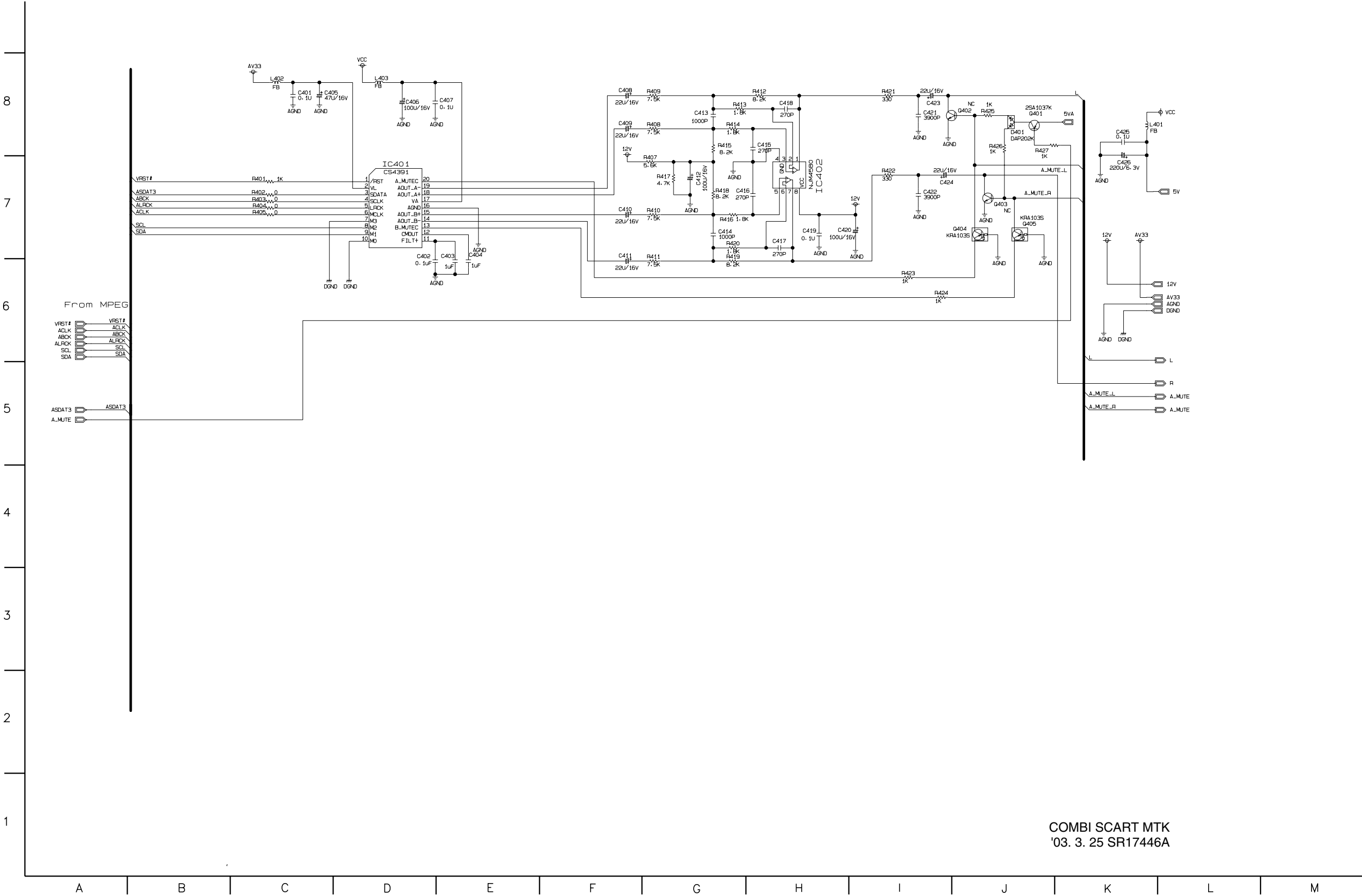
2. RF & DSP SERVO CIRCUIT DIAGRAM



3. AUDIO CIRCUIT DIAGRAM



4. AV/JACK CIRCUIT DIAGRAM



COMBI SCART MTK
'03. 3. 25 SR17446A

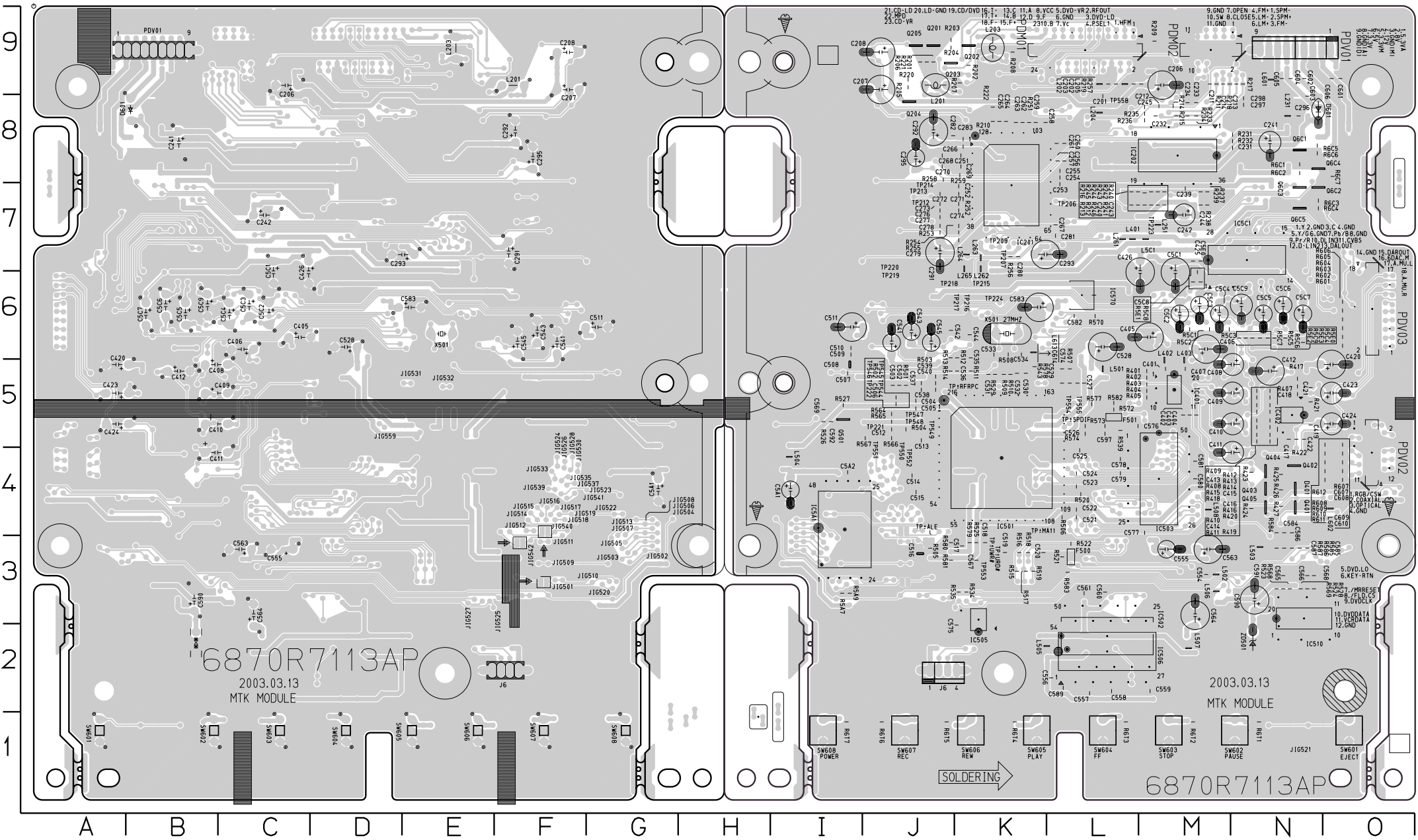
• CIRCUIT VOLTAGE CHART

	IC201(MT1336E)		IC202(MOTOR)		IC501(MT1379)		IC502(SDRAM)		IC505(EEPROM)		IC510(BUFFER)		IC5A1(FLASH)		IC401(CS4391)		IC402(AMP)		IC5C1(MM1623XFB)	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
1	1.03	2.99	0	0	1.22	1.22	3.27	3.28	0	0	0	0								
2	5.11	5.08	0	0	0	0	1.18	1.26	0	0	2.59	2.55	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
3	0	0	8.04	8.01	0.96	0.9	1.1	1.52	0	0	0	0	0.08	0.16	3.28	3.29	5.52	5.49	5.09	5.08
4	0	0	0.12	0.06	2	2.06	0	0	0	0	2.59	2.56	1.82	0.45	3.28	3.28	5.52	5.48	2.43	2.42
5	5.11	5.07	0	0.06	0	1.51	0.66	1.07	3.28	3.29	0	0	2.84	0	0	1.65	5.51	5.47	5.09	5.08
6	0	1.95	3.64	3.69	1.48	1.47	0.85	1.12	3.28	3.29	3.24	3.23	2.83	3.12	1.63	1.64	0	0	1.45	0
7	0	0	3.62	3.61	0	1.56	3.27	3.28	0	0	0	0	0.69	0.26	1.64	1.65	5.51	5.48	0	0
8	0	0	3.64	3.53	3.2	1.52	0.51	0.97	3.28	3.29	0.14	0.08	1.72	0.25	1.59	1.61	5.51	5.48	1.45	1.69
9	5.11	0	3.6	3.76	0.12	0.06	3.06	0			0	0	1.92	0.9	0	0	5.52	5.47	0	0
10	5.11	5.08	3.62	2.43	0.12	0.06	0	0			0	0	1.7	1.45	3.28	0	12.03	12.03	2.47	2.46
11	5.11	5.08	3.63	4.85	3.25	3.25	0.06	0.98			0.15	0.09	0	0	3.28	3.29			0	0
12	0	0	3.62	3.72	1.41	1.49	3.18	0.87			0	0	0	0	0	0			1.14	1.76
13	5.11	0	3.64	3.57	1.41	1.41	3.27	3.28			0.15	0.08	3.27	3.29	5.01	5.01			0	0
14	5.11	5.08	8.04	8.01	0	0	2.94	2.56			5.19	5.19	3.56	3.55	2.31	2.31			2.42	2.42
15	2.84	2.81	1.45	1.48	1.42	1.42	0.47	0.42			0.14	0.09	3.29	3.29	4.96	0			5.09	5.08
16	1.45	1.43	0.27	1.39	3.3	0	2.93	3.01			5.25	5.24	0	0	1.42	2.41			2.43	2.42
17	2.08	2.07	0.29	1.32	2.53	2.53	3.21	3.22			0.15	0.08	0.23	0.06	2.4	2.39			0	0
18	1.37	1.42	1.45	1.43	1.42	2.27	2.87	2.95			5.23	5.23	0	0	0	0			2.49	2.47
19	0.69	2.3	1.45	1.43	1.42	1.39	0.15	1.32			0	0	0	0	5.11	5.09			0	0
20	2.4	0	1.45	0.82	0	0	0	0.05			5.25	5.25	0	0.87	2.41	2.41			2.48	2.47
21	2.35	0	1.45	1.43	2.61	2.58	3.09	1.32					1.98	2.64	2.43	2.43			0	0
22	5.11	5.08	1.45	1.43	0.75	1.46	3.09	1.32					2.28	2.18	0	0			1.18	2.3
23	0	0	1.47	1.37	2.83	1	3.09	1.32					2.13	1.96					1.76	2.17
24	2.59	3.2	1.45	1.43	1.9	0.89	3.09	1.33					1.67	2.01					0	0
25	0.19	1.88	1.45	1.43	1.72	0.39	3.27	3.29					1.99	1.72					1.76	2.24
26	1.58	0	0.95	0.91	0.68	0.31	0	0					1.93	2.19					0	0
27	2.56	3.13	0	0	2.84	3.16	0.15	1.36					2.05	1.94					0	0
28	2	2.01	1.45	1.43	0	0	1.84	2.36					0	0					0	0
29	2	2.06	5.15	5.11	2.85	0.66	1	2.32					0	0					0.06	0.05
30	2.96	1.52	1.45	1.43	1.83	0.49	0.54	1.75					0	0					5.09	0
31	0	0	1.45	1.43	0.91	1.39	0.06	0.06					1.49	2.03						
32	0.06	2.07	1.45	1.43	1.43	1.2	0.05	0.06					0.16	1.07						
33	0.07	2.07	1.46	1.45	1.51	1.57	0	0					1.96	1.25						
34	0	0	5.08	5.06	1.51	1.43	0.73	1.26					0.16	1.1						
35	0	0	5.15	5.11	3.3	3.29	1.48	1.55					0.99	2.2						
36	0	0	0	0	0.81	1.26	2.91	2.53					1.17	1.07						
37	5.13	0			1.45	1.02	0.07	0					0.79	1.82						
38	0	0			1.82	1.6	3.27	3.28					0.15	1.07						
39	0	0			1.2	1.5	1.06	1.05					3.29	3.3						
40	0	0			2	2.06	0.47	0.98					1.93	3.09						
41	0	0			2.17	1.95	0	0					0.16	1.07						
42	5.12	5.09			2.53	2.52	0	0.6					1.5	2.2						
43	5.12	5.09			1.96	1.9	1.12	1.24					0.16	1.07						
44	5.12	5.09			1.79	1.9	3.27	3.28					1.21	2.64						
45	5.12	5.09			0.8	1.72	1.21	0.99					0.16	1.08						
46	5.12	5.09			0.8	1.96	1.31	1.34					1.64	1.48						
47	0	0			0.8	1.84	0	0					2.05	2.06						
48	5.12	5.09			3.3	2.63	1.43	1.44					0	0						
49	5.12	0			0	0.13	0.88	1.01					0	0						
50	5.08	5.06			0	0.07	0	0					0.07	0.13						
51	5.09	5.07			0	0														
52	5.1	0			0	0														
53	0	0			0	0														
54	5.13	0			0	0														
55	0.09	0.2			3.25	3.27														
56	1.61	0			1.21	1.18														
57	0	0			0	0														
58	0	0			3.29	3.29														
59	0	0			0	0														
60	0	0			0	0														
61	3.28	0			2.59	2.57														
62	0	0			2.58	2.58														
63	0	0			0	0														
64	0	0			2.59	2.56														
65	0	0			3.29	3.29														
66	0.26	0			3.3	3.29														
67	5.12	5.08			3.29	3.29														
68	0	0			2.57	2.56														
69	5.12	0			5.19	5.18														
70	3.21	2.03			2.59	2.57														
71	3.46	2.2			0.12	0.08														
72	2.81	0			2.53	2.52														
73	0	0			2.59	2.57														
74	0.21	0.09			3.29	3.29														
75	0.22	0			2.61	2.61														
76	0	0.1			3.27	3.24														
77	0.21	0.09			0	0														
78	0.23	0.09			0.94	1.04														
79	0.21	0.08			0.78	1.06														
80	0.23	0.08			0.89	1.15														

[illegible]

PRINTED CIRCUIT DIAGRAMS

1. MAIN P.C.BOARD



LOCATION GUIDE

J10501	F3	C201	L8	C298	N8	C534	K6	C602	N9	PDV02	04	R254	K7	R528	N3	R6C6	N8
J10502	G3	C202	L9	C401	M5	C535	K6	C603	N8	PDV03	06	R255	K7	R529	K5	R6C7	08
J10503	G3	C203	L9	C402	M5	C536	K5	C604	N9	Q201	J9	R256	K7	R530	K3	R611	N1
J10504	G3	C206	M9	C403	M5	C537	J5	C605	N9	Q202	K9	R257	M9	R535	K3	R612	M1
J10505	G3	C207	J9	C404	M5	C538	J5	C606	09	Q203	J9	R258	J8	R539	L5	R613	L1
J10506	G4	C208	J9	C405	M6	C539	J5	C607	04	Q204	J8	R259	K8	R543	L5	R614	K1
J10507	G4	C211	M9	C406	M6	C540	J5	C608	04	Q205	J9	R260	M5	R544	J5	R615	J1
J10508	G4	C212	M8	C407	M6	C541	J6	C609	04	Q401	N4	R261	M5	R545	J5	R616	J1
J10509	F3	C213	N9	C408	N5	C542	J6	C610	04	Q402	N4	R262	M5	R546	J5	R617	I1
J10510	G3	C214	M9	C409	N5	C543	J6	C611	K5	Q403	N4	R263	M5	R547	J5	R618	01
J10511	F3	C231	N8	C410	N5	C544	K6	Q404	N4	Q404	N4	R264	M5	R548	N3	R619	N1
J10512	F4	C232	M8	C411	N4	C545	J6	Q601	N8	Q405	N4	R265	M5	R549	N3	R620	M1
J10513	G4	C233	M8	C412	N5	C546	M3	F500	L3	Q501	L5	R266	M5	R550	L3	R621	L1
J10514	F4	C234	M8	C413	N5	C547	M3	F501	L5	Q601	N8	R267	M5	R551	L3	R622	L1
J10515	F4	C239	M7	C414	N5	C548	L2	IC201	K7	Q602	N7	R268	M5	R552	L5	R623	K1
J10516	F4	C240	M7	C415	N5	C549	L2	IC202	M8	Q603	N7	R269	M5	R553	L5	R624	J1
J10517	F4	C241	N8	C416	N5	C550	L2	IC401	M5	Q604	N8	R270	M5	R554	L5	R625	J1
J10518	F4	C242	M7	C417	N5	C551	N2	IC402	N6	Q605	N7	R271	M5	R555	L5	R626	L7
J10519	F4	C243	M7	C418	N5	C552	L3	IC501	K4	Q606	N7	R272	M5	R556	L5	R627	K7
J10520	G3	C244	M7	C419	N5	C553	L3	IC502	L2	Q607	K9	R273	M5	R557	L5	R628	J7
J10521	G4	C245	M8	C420	N5	C554	M3	IC503	K4	Q608	J9	R274	M5	R558	L5	R629	J7
J10522	G4	C246	M8	C421	N5	C555	M3	IC504	K4	Q609	J9	R275	M5	R559	L5	R630	J7
J10523	G4	C247	M8	C422	N5	C556	M3	IC505	K4	Q610	J9	R276	M5	R560	L5	R631	J7
J10524	F4	C252	K7	C423	N5	C557	N3	IC506	L2	Q611	J9	R277	M5	R561	L5	R632	J7
J10525	E3	C253	L7	C424	N5	C558	N3	IC507	N3	Q612	J9	R278	M5	R562	L5	R633	J7
J10526	F4	C254	L8	C425	N5	C559	K3	IC508	L6	Q613	K9	R279	M5	R563	L5	R634	K6
J10527	E3	C255	L8	C426	M6	C560	N3	IC509	L4	Q614	K9	R280	M5	R564	L5	R635	K6
J10528	F4	C256	L8	C427	M6	C561	N3	IC510	N7	Q615	K9	R281	M5	R565	L5	R636	K6
J10529	F4	C257	L8	C428	M6	C562	N3	IC511	N7	Q616	K9	R282	M5	R566	L5	R637	K6
J10530	F4	C258	L8	C429	M6	C563	N3	IC512	N7	Q617	K9	R283	M5	R567	L5	R638	K6
J10531	E5	C259	K8	C430	J5	C564	K2	IC513	N1	Q618	K9	R284	M5	R568	L5	R639	K6
J10532	E6	C260	K8	C431	J5	C565	L5	IC514	N1	Q619	K9	R285	M5	R569	L5	R640	K6
J10533	F4	C261	L8	C432	N5	C566	N3	IC515	L2	Q620	L9	R286	M5	R570	L5	R641	K6
J10534	F4	C262	L8	C433	N5	C567	N3	IC516	L2	Q621	L9	R287	M5	R571	L5	R642	K6
J10535	F4	C263	L8	C434	N5	C568	N3	IC517	L2	Q622	L9	R288	M5	R572	L5	R643	K6
J10536	F4	C264	L8	C435	N5	C569	N3	IC518	L2	Q623	L9	R289	M5	R573	L5	R644	K6
J10537	F4	C265	L8	C436	N5	C570	N3	IC519	L2	Q624	L9	R290	M5	R574	L5	R645	K6
J10538	F4	C266	K8	C437	N5	C571	N3	IC520	L2	Q625	L9	R291	M5	R575	L5	R646	K6
J10539	F4	C267	L7	C438	N5	C572	N3	IC521	L2	Q626	L9	R292	M5	R576	L5	R647	K6
J10540	F4	C268	K8	C439	N5	C573	N3	IC522	L2	Q627	L9	R293	M5	R577	L5	R648	K6
J10541	F4	C269	K8	C440	N5	C574	N3	IC523	L2	Q628	L9	R294	M5	R578	L5	R649	K6
J10542	F3	C270	K8	C441	N5	C575	N3	IC524	L2	Q629	L9	R295	M5	R579	L5	R650	K6
J10543	F3	C271	K8	C442	N5	C576	N3	IC525	L2	Q630	L9	R296	M5	R580	L5	R651	K6
J10544	F3	C272	K8	C443	N5	C577	N3	IC526	L2	Q631	L9	R297	M5	R581	L5	R652	K6
J10545	F3	C273	K8	C444	N5	C578	N3	IC527	L2	Q632	L9	R298	M5	R582	L5	R653	K6
J10546	F3	C274	K8	C445	N5	C579	N3	IC528	L2	Q633	L9	R299	M5	R583	L5	R654	K6
J10547	F3	C275	K8	C446	N5	C580	N3	IC529	L2	Q634	L9	R300	M5	R584	L5	R655	K6
J10548	F3	C276	K8	C447	N5	C581	N3	IC530	L2	Q635	L9	R301	M5	R585	L5	R656	K6
J10549	F3	C277	K8	C448	N5	C582	N3	IC531	L2	Q636	L9	R302	M5	R586	L5	R657	K6
J10550	F3	C278	K8	C449	N5	C583	N3	IC532	L2	Q637	L9	R303	M5	R587	L5	R658	K6
J10551	F3	C279	K8	C450	N5	C584	N3	IC533	L2	Q638	L9	R304	M5	R588	L5	R659	K6
J10552	F3	C280	K8	C451	N5	C585	N3	IC534	L2	Q639	L9	R305	M5	R589	L5	R660	K6
J10553	F3	C281	K8	C452	N5	C586	N3	IC535	L2	Q640	L9	R306	M5	R590	L5	R661	K6
J10554	F3	C282	K8	C453	N5	C587	N3	IC536	L2	Q641	L9	R307	M5	R591	L5	R662	K6
J10555	F3	C283	K8	C454	N5	C588	N3	IC537	L2	Q642	L9	R308	M5	R592	L5	R663	K6
J10556	F3	C284	K8	C455	N5	C589	N3	IC538	L2	Q643	L9	R309	M5	R593	L5	R664	K6
J10557	F3	C285	K8	C456	N5	C590	N3	IC539	L2	Q644	L9	R310	M5	R594	L5	R665	K6
J10558	F3	C286	K8	C457	N5	C591	N3	IC540	L2	Q645	L9	R311	M5	R595	L5	R666	K6
J10559	F3	C287	K8	C458	N5	C592	N3	IC541	L2	Q646	L9	R312	M5	R596	L5	R667	K6
J10560	F3	C288	K8	C459	N5	C593	N3	IC542	L2	Q647	L9	R313	M5	R597	L5	R668	K6
J10561	F3	C289	K8	C460	N5	C594	N3	IC543	L2	Q648	L9	R314	M5	R598	L5	R669	K6
J10562	F3	C290	K8	C461	N5	C595	N3	IC544	L2	Q649	L9	R315	M5	R599	L5	R670	K6
J10563	F3	C291	K8	C462	N5	C596	N3	IC545	L2	Q650	L9	R316	M5	R600	L5	R671	K6
J10564	F3	C292	K8	C463	N5	C597	N3	IC546	L2	Q651	L9	R317	M5	R601	L5	R672	K6
J10565	F3	C293	K8	C464	N5	C598	N3	IC547	L2	Q652	L9	R318	M5	R602	L5	R673	K6
J10566	F3	C294	K8	C465	N5	C599	N3	IC548	L2	Q653	L9	R319	M5	R603	L5	R674	K6
J10567	F3	C295	K8	C466	N5	C600	N3	IC549	L2	Q654	L9	R320	M5	R604	L5	R675	K6
J10568	F3	C296	K8	C467	N5	C601	N3	IC550	L2	Q655	L9	R321	M5	R605	L5	R676	K6
J10569	F3	C297	K8	C468	N5	C602	N3	IC551	L2	Q656	L9	R322	M5	R606	L5	R677	K6

MEMO

Handwriting practice area with 25 horizontal dotted lines.

MEMO

Handwriting practice area with 25 horizontal dotted lines.

SECTION 4 MECHANISM OF VCR PART

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MECHANISM TROUBLESHOOTING GUIDE

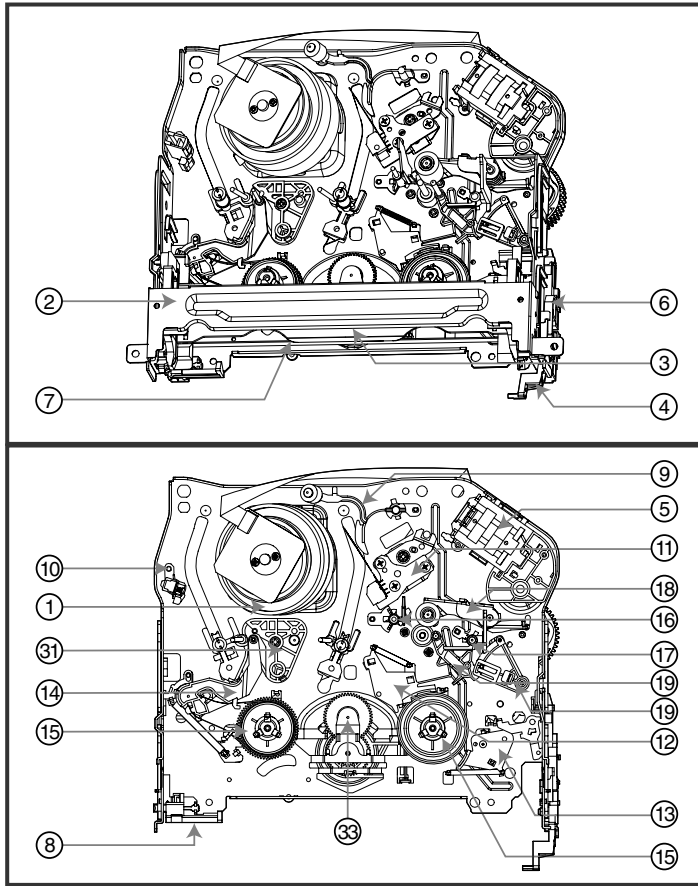
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EXPLODED VIEWS

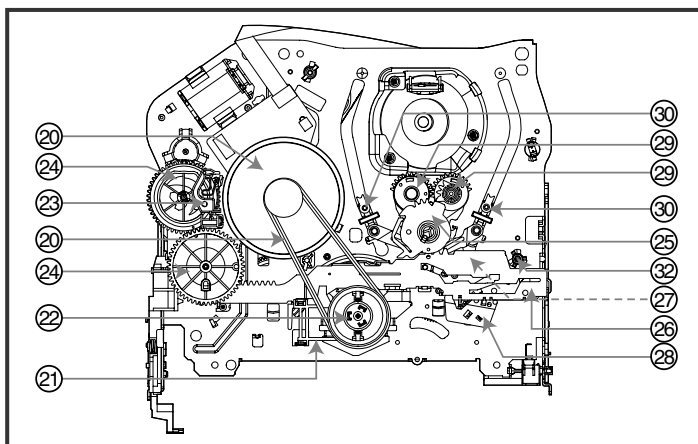
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-

DECK MECHANISM PARTS LOCATIONS

• Top View



• Bottom View



NOTE : When reassembly perform the procedure in the reverse order.

- 1) When reassembling, confirm Mechanism and Mode Switch Alignment Position (Refer to Page 4-13)
- 2) When disassembling, the Parts for Starting No. Should be removed first.

Procedure Starting No.	Part	Fixing Type	Figure	View
1	Drum Assembly	3 Screw	A-1	T
2	Plate Top	2 Hook	A-2	T
2	3 Holder Assembly CST	Chassis Hole	A-2	T
2	4 Opener Door	Chassis Hole	A-2	T
	5 Bracket Assembly L/D Motor	3 Hook	A-2	T
2,3,4	6 Gear Assembly Rack F/L	1 Hook, Chassis Hole	A-2	T
2,3,4,6	7 Arm Assembly F/L	Chassis Hole	A-2	T
	8 Lever Assembly S/W	1 Hook	A-2	T
	9 Arm Assembly Cleaner	Chassis Embossing	A-3	T
	10 Head F/E	Chassis Embossing	A-3	T
	11 Base Assembly A/C Head	1 Screw	A-3	T
2,3	12 Brake Assembly T	1 Hook	A-4	T
2,3	13 Brake Assembly RS	1 Hook	A-4	T
2,3	14 Arm Assembly Tension	2 Hook	A-4	T
2,3,12,13, 14	15 Reel S/Reel T		A-4	T
	16 Base Assembly P4	Chassis Embossing	A-5	T
	17 Opener Lid	Chassis Embossing	A-5	T
17	18 Arm Assembly Pinch	Shaft	A-5	T
17	19 Lever T/Up / Arm T/Up	1 Hook	A-5	T
17,18	20 Belt Capstan/Motor Capstan	3 Screw	A-6	B
	21 Lever F/R	Locking Tab	A-6	B
20, 21	22 Clutch Assembly D35	Washer	A-6	B
	23 Brake Assembly Capstan	Locking Tab	A-6	B
	24 Gear Drive/Gear Cam	Washer/Hook	A-7	B
	25 Gear Sector	1 Hook	A-7	B
20,21,23, 24,25	26 Plate Slider	Shaft Guide	A-7	B
20,21,23, 24,25,26	27 Lever Tension	1 Hook	A-7	B
2,3,14,20, 21,25,23, 24,26	28 Lever Spring	Locking Tab	A7	B
25	29 Gear Assembly P2/Gear Assembly P3	Boss	A-8	B
2,3,14,25, 29	30 Base Assembly P2/Base Assembly P3	Chassis Slot	A-8	B
2,3,14,25, 29	31 Base Loading	1 Screw	A-9	T
2,3,14	32 Base Tension	Chassis Embossing	A-9	B
2,3,20,21, 22	33 Arm Assembly Idler	Locking Tab	A-9	T

T:Top, B:Bottom

DECK MECHANISM DISASSEMBLY

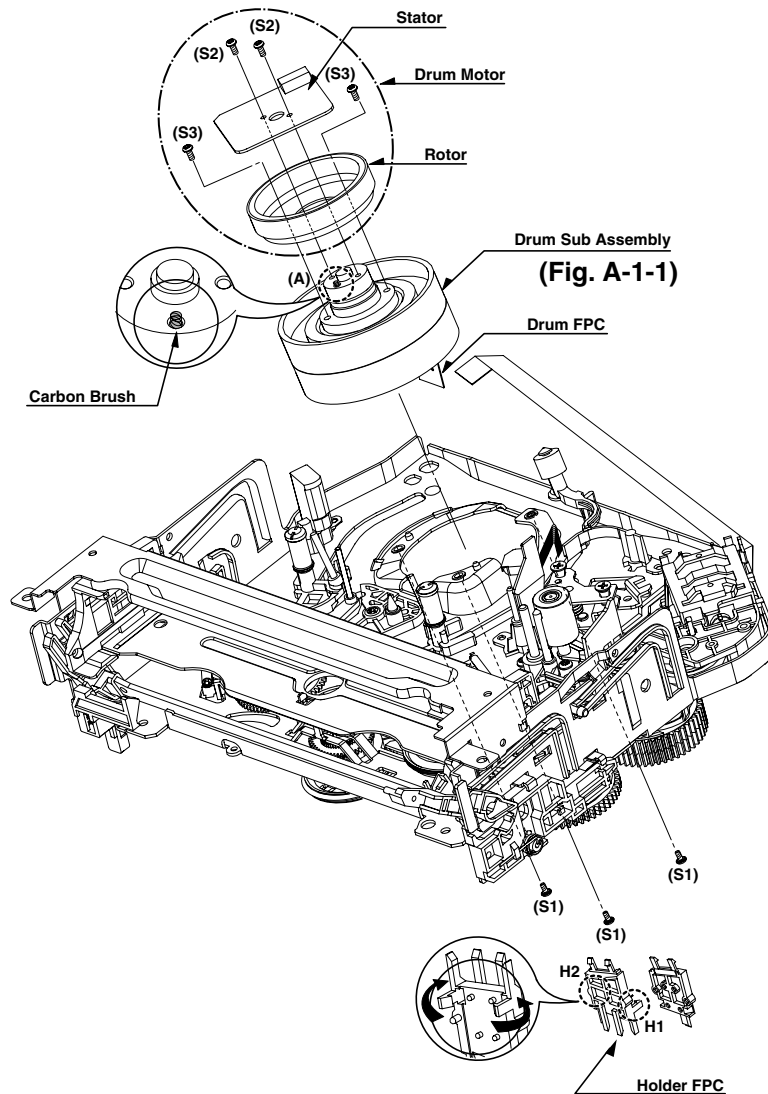


Fig. A-1

1. Drum Assembly (Fig. A-1-1)

- 1) Unplug the Drum FPC Connector.
- 2) Remove three Screws(S1) on bottom side and separate the Drum assembly.
- 3) Unhook (H1), (H2) and separate the Holder FPC and Cap FPC.

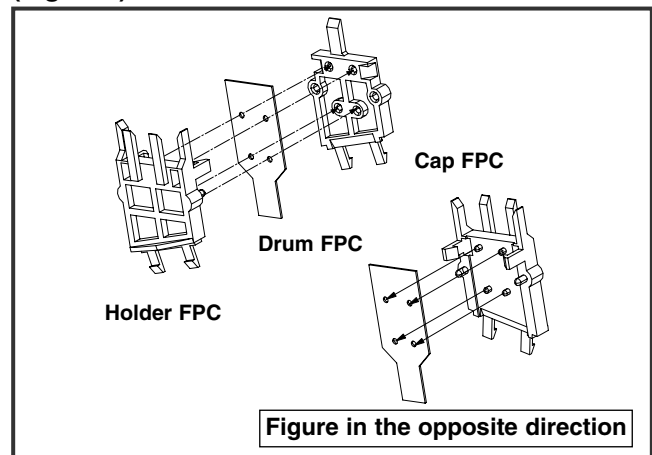
1-1. Drum Motor

- 1) Remove two Screws(S2) and disassemble the Stator of the Drum Motor.
- 2) Remove two Screws(S3) and separate the Rotor of the Drum Motor from the Drum Sub assembly.

NOTE

When reassembling, confirm (A) portion of the Drum Sub assembly whether the Carbon Brush is in there or not.

(Fig. B-1)



DECK MECHANISM DISASSEMBLY

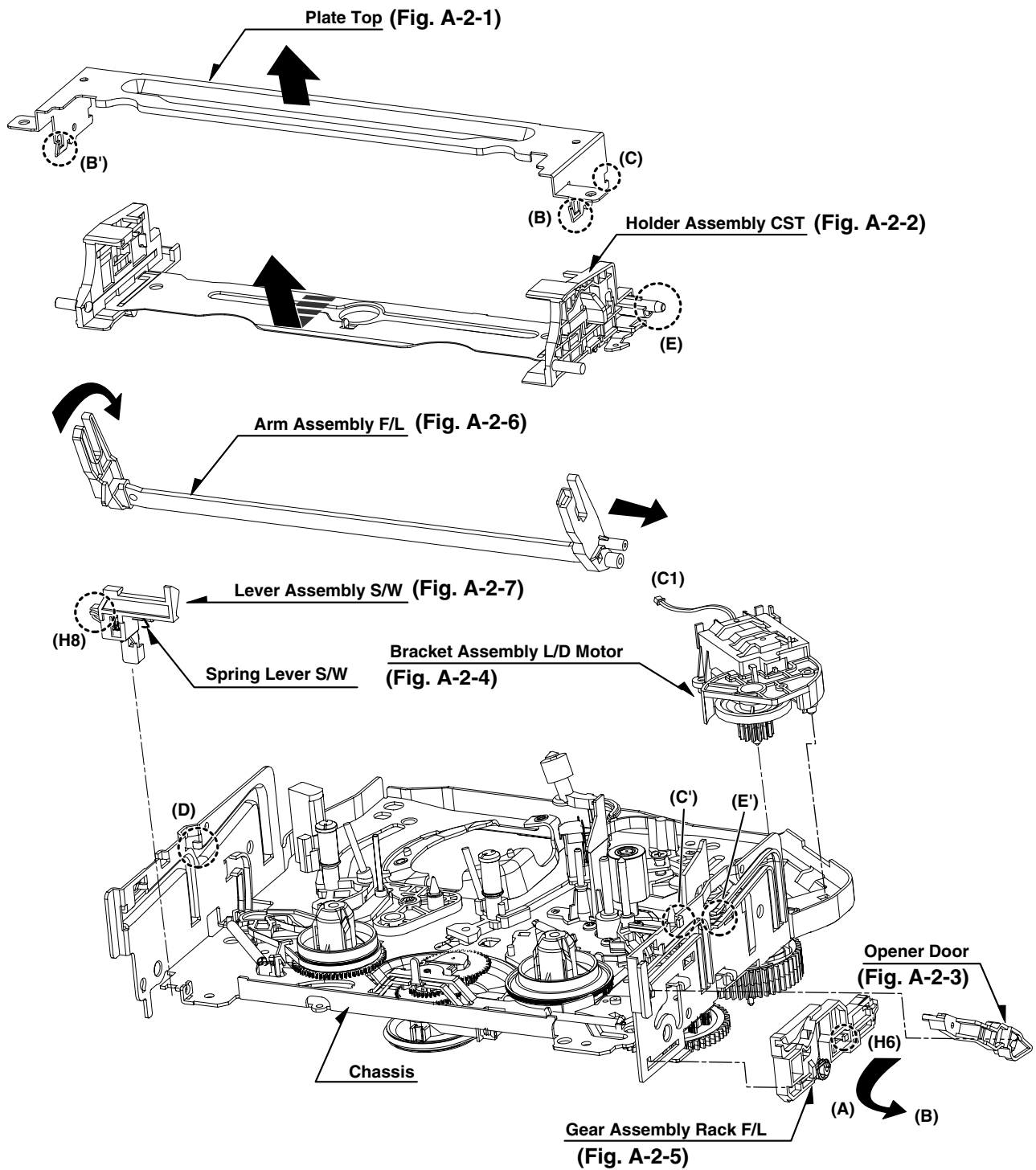


Fig. A-2

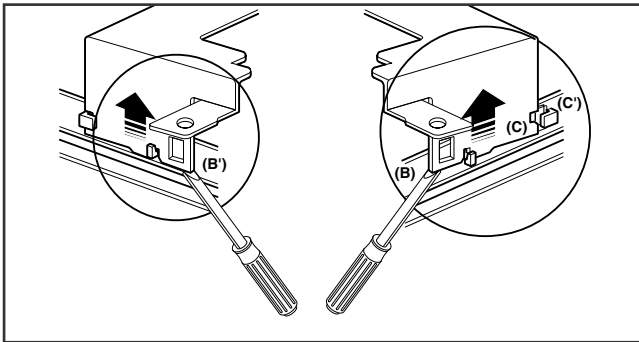
DECK MECHANISM DISASSEMBLY

2. Plate Top (Fig. A-2-1)

- 1) Pull the (B) portion of the Plate Top back in direction of arrow and separate the right side of it.
- 2) pull the (B') portion of the Plate Top back in direction of arrow and separate the left side of it.
(Used tools : (-) type driver, anything tool with sharp point or flat point.)

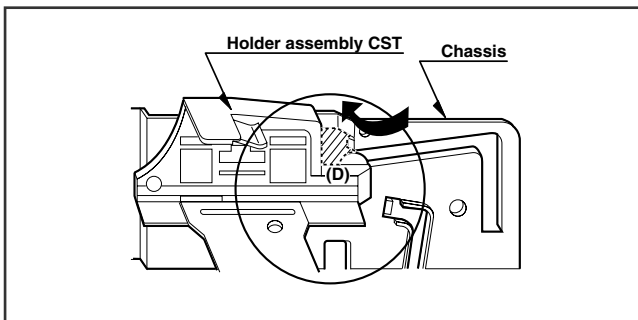
NOTE

- (1) When reassembling, push the Plate Top after alignment the two position(C), (C') as below Fig.



3. Holder Assembly CST (Fig.A-2-2)

- 1) Move the Holder Assembly CST in direction of arrow and separate the left side of it first through the (D) position of the Chassis.



- 2) Disassemble the right side of the Holder Assembly CST from each guided hole of the Chassis.

NOTE

When reassembling, insert the (E) part of the Holder Assembly CST in the (E') hole of the Chassis first and assemble the left side of it.

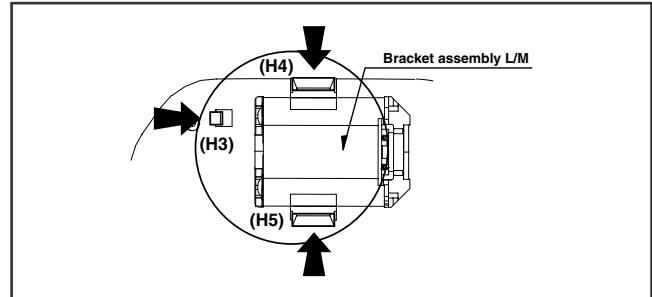
4. Opener Door (Figure. A-2-3)

- 1) Turn the Opener Door clockwise and remove it through the guide hole of the Chassis.

5. Bracket Assembly L/D Motor (Fig. A-2-4)

- 1) Unplug the Connector(C1).

- 2) Unhook three Hooks(H3, H4, H5) on bottom side of the Chassis, lift up the Bracket Assembly L/M and disassemble the Bracket Assembly L/D Motor.

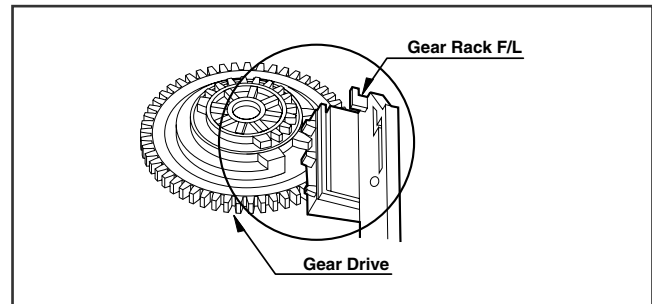


6. Gear Assembly Rack F/L (Fig. A-2-5)

- 1) Move the Gear Assembly Rack F/L in direction of arrow(A) and unhook the Hook(H6) pulling back in front.
- 2) Separate the Gear Rack F/L in direction of arrow(B).

NOTE

When reassembling, align the gear part of the Gear Assembly Rack F/L with the Gear Drive as below Fig.

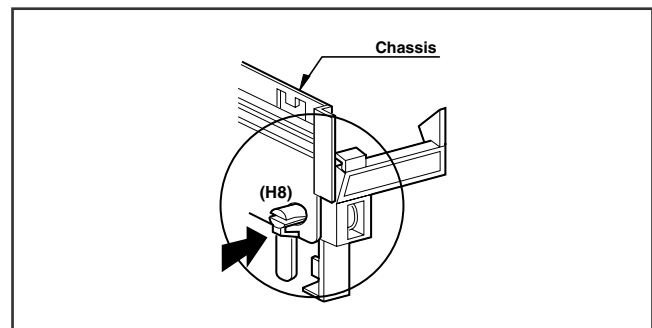


7. Arm Assembly F/L (Fig. A-2-6)

- 1) Move the Arm Assembly F/L in direction of arrow and separate the left side of it first.
- 2) Disassemble the Arm Assembly F/L from each guided hole of the Chassis.

8. Lever Assembly S/W(Fig. A-2-7)

- 1) Unhook the Hook(H8) in the left side of the Chassis and remove the Lever Assembly S/W.



DECK MECHANISM DISASSEMBLY

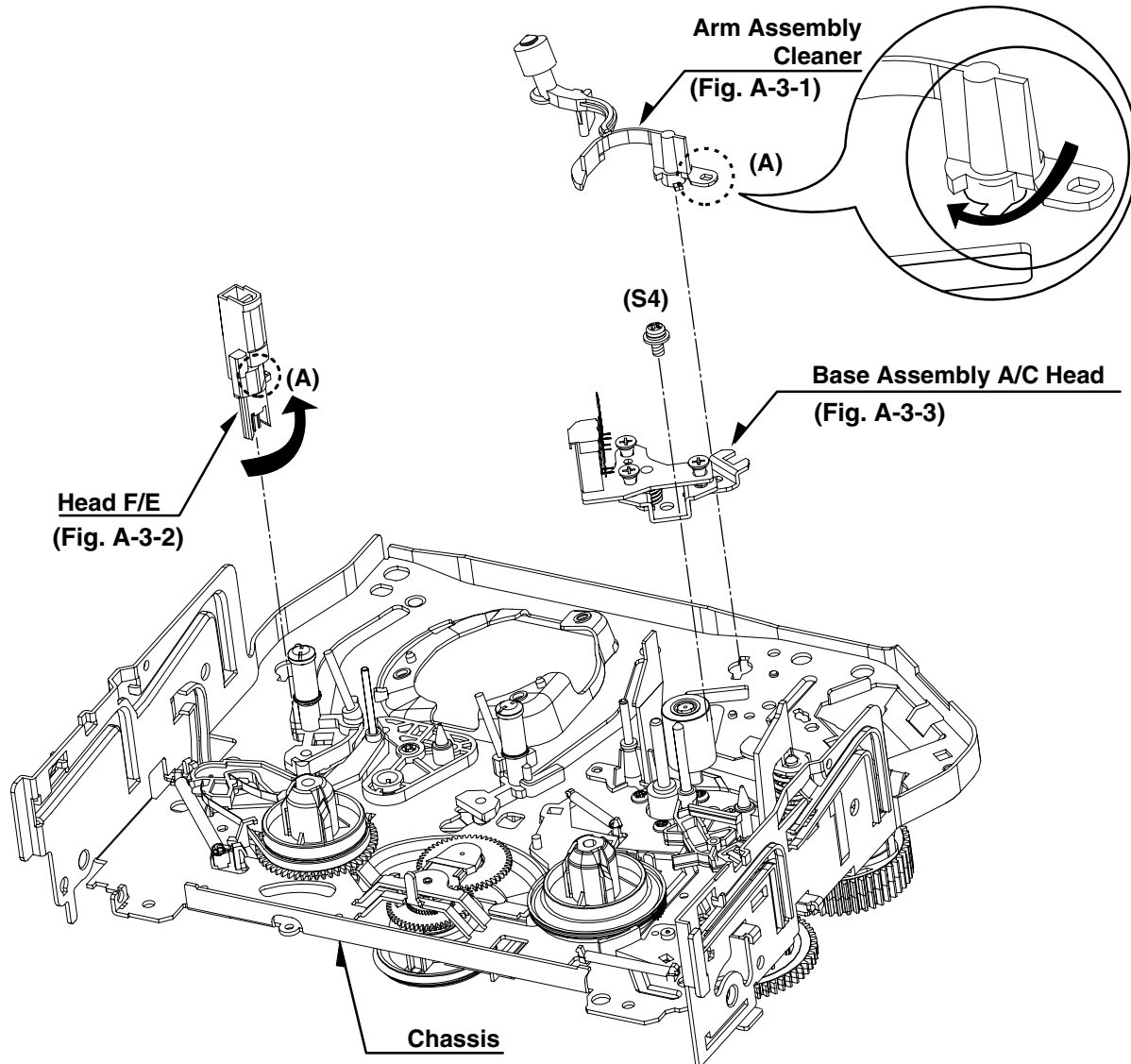


Fig. A-3

9. Arm Assembly Cleaner (Fig. A-3-1)

- 1) Breakaway the (A) portion as Fig. A-3-1 from the embossing of the Chassis, turn the Arm assembly Cleaner to clockwise direction and lift it up.

10. Head F/E (Fig. A-3-2)

- 1) Breakaway the (A) portion of the Head F/E from the embossing of the Chassis, turn it to counterclockwise direction and lift it up.

11. Base Assembly A/C Head (Fig. A-3-3)

- 1) Remove the Screw(S4) and lift the Base Assembly A/C Head up.

DECK MECHANISM DISASSEMBLY

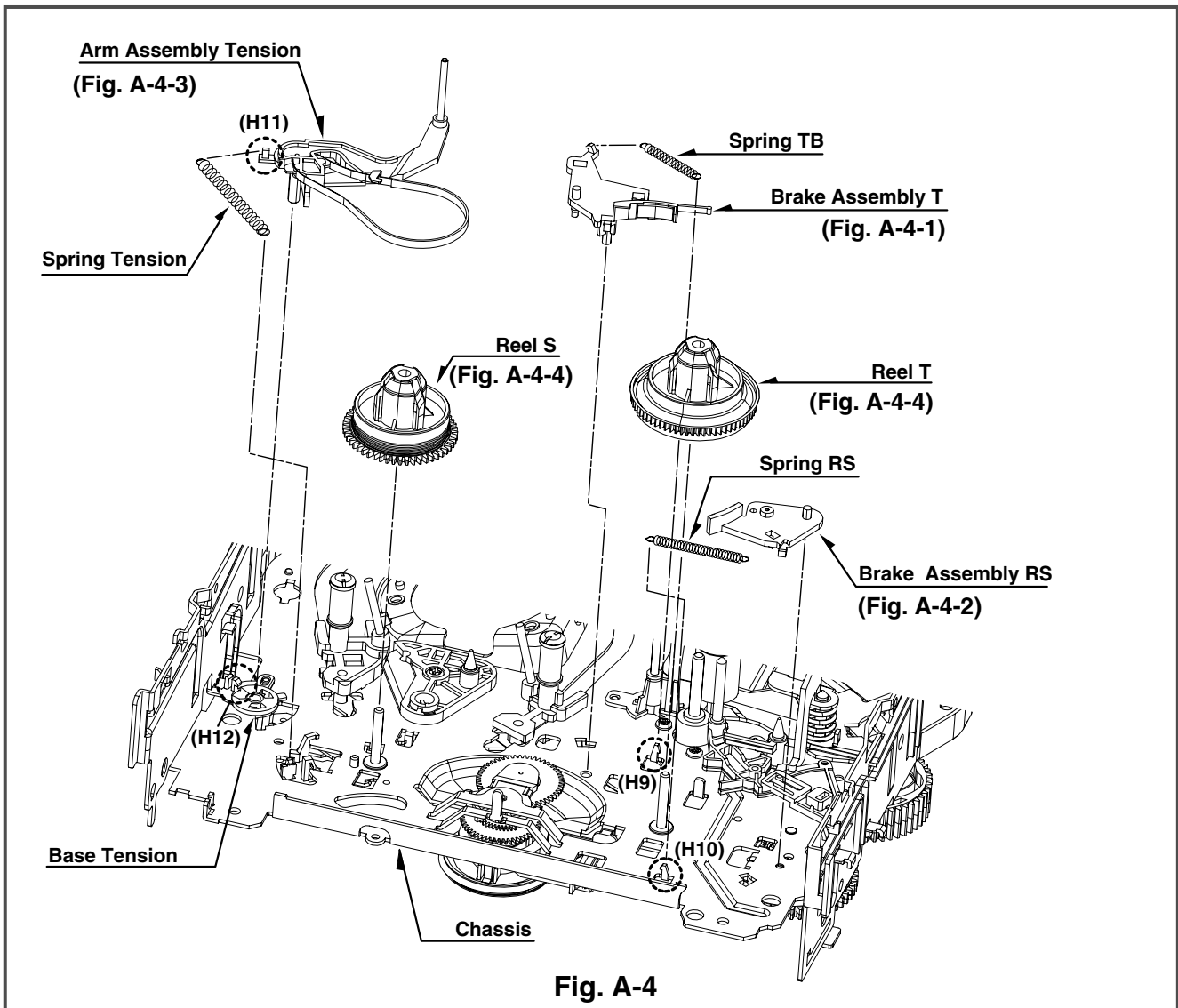


Fig. A-4

12. Brake Assembly T (Fig. A-4-1)

- 1) Unhook the Spring TB from the Hook(H9) of the Chassis.
- 2) Lift the Brake Assembly T up.

13. Brake Assembly RS (Fig. A-4-2)

- 1) Unhook the Spring RS from the Hook(H10) of the Chassis.
- 2) Lift the Brake Assembly T up.

14. Arm Assembly Tension (Fig. A-4-3)

- 1) Unhook the Spring Tension from the Hook(H11) of the Arm Assembly Tension.
- 2) Unhook the Hook(H12) of the Base Tension and lift the Arm Assembly Tension up.

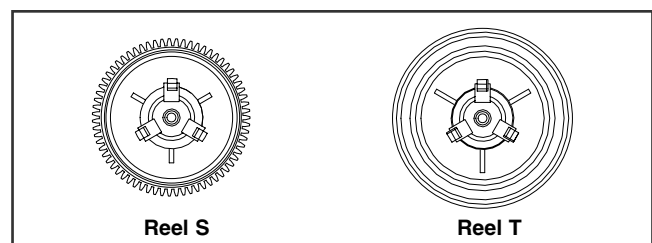
NOTE

Difference for Springs

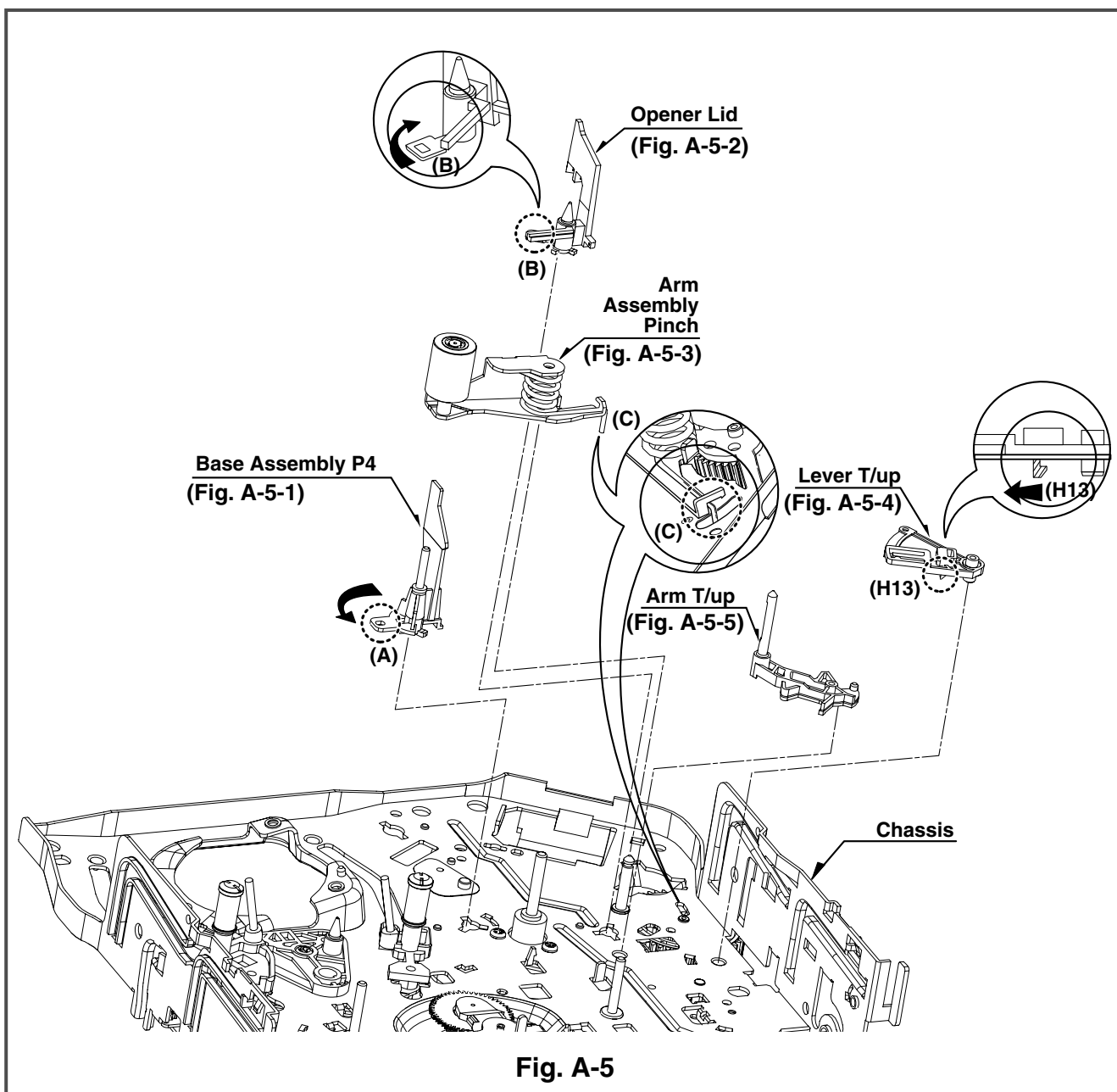
	Spring TB	
	Spring RS	Color (Black)
	Spring Tension	

15. Reel S / Reel T (Fig. A-4-4)

- 1) Difference for Reel S / Reel T



DECK MECHANISM DISASSEMBLY



16. Base Assembly P4 (Fig. A-5-1)

- 1) Breakaway the (A) portion of the Base Assembly P4 from the embossing of the Chassis.
- 2) Turn the Base Assembly P4 to counterclockwise direction and lift it up.

17. Opener Lid (Fig. A-5-2)

- 1) Breakaway the (B) portion of the Opener Lid from the embossing of the Chassis.
- 2) Turn the Opener Lid to clockwise direction and lift it up.

18. Arm Assembly Pinch (Fig. A-5-3)

- 1) Lift the Arm Assembly Pinch up.

NOTE

When reassembling, confirm the (C) portion of the Arm Assembly Pinch is inserted to the Chassis hole correctly as Fig.

19. Lever T/up (Fig. A-5-4)/ Arm T/up (Fig. A-5-5)

- 1) Unhook the Hook(H13) of the bottom Chassis and lift the Lever T/up up.
- 2) Lift the Arm T/up up.

DECK MECHANISM DISASSEMBLY

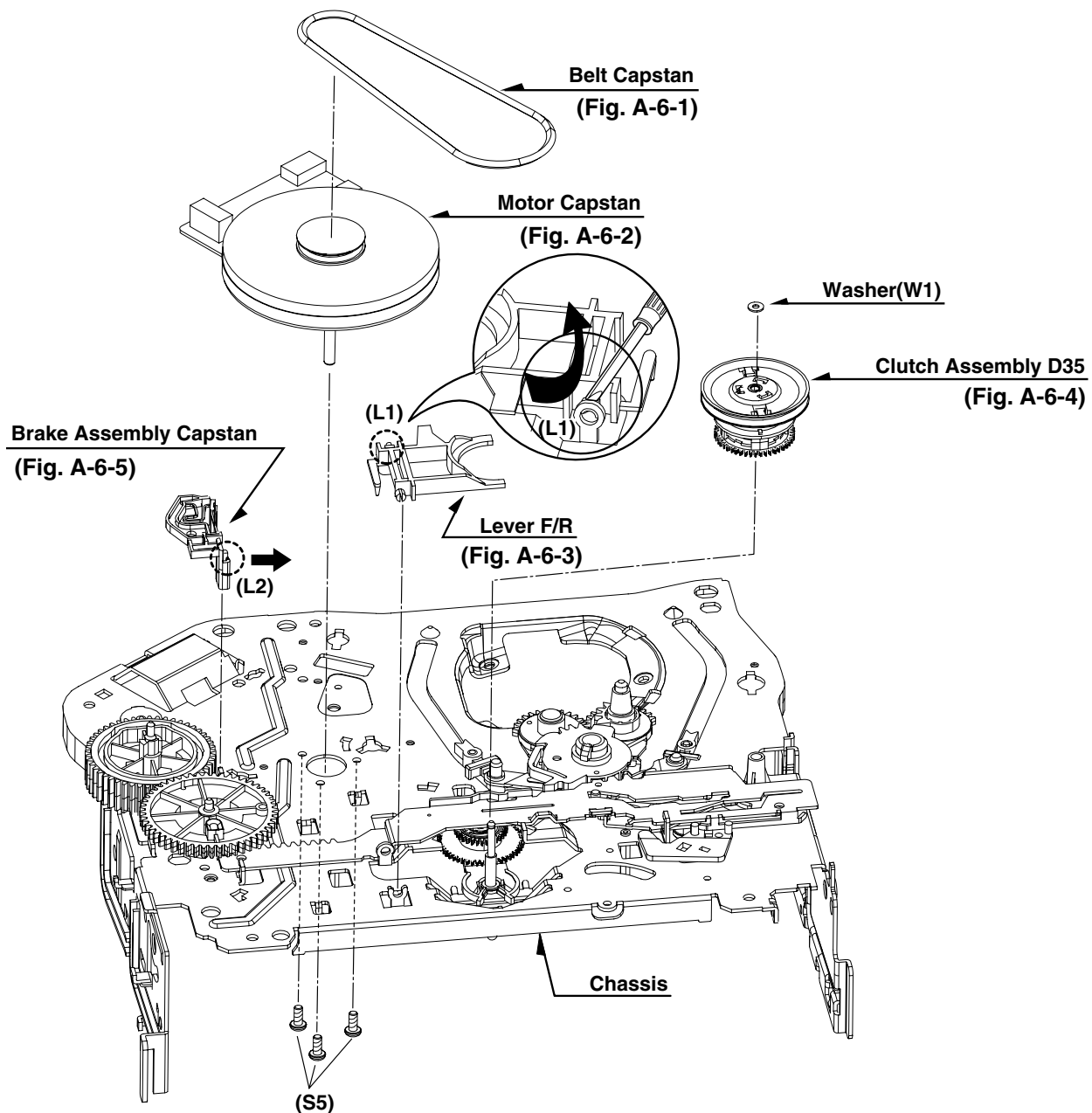


Fig. A-6

20. Belt Capstan (Fig. A-6-1)/ Motor Capstan (Fig. A-6-2)

- 1) Remove the Belt Capstan.
- 2) Remove the three Screws(S5) on bottom Chassis and lift the Motor Capstan up.

21. Lever F/R (Fig. A-6-3)

- 1) Unlock the Locking Tab(L1) as Fig. A-6-3 and lift the Lever F/R up.

22. Clutch Assembly D35 (Fig. A-6-4)

- 1) Remove the Washer(W1) and lift the Clutch Assembly D35 up.

23. Brake Assembly Capstan (Fig. A-6-5)

- 1) Pull the Locking Tab(L2) back in direction of arrow and lift it up.

DECK MECHANISM DISASSEMBLY

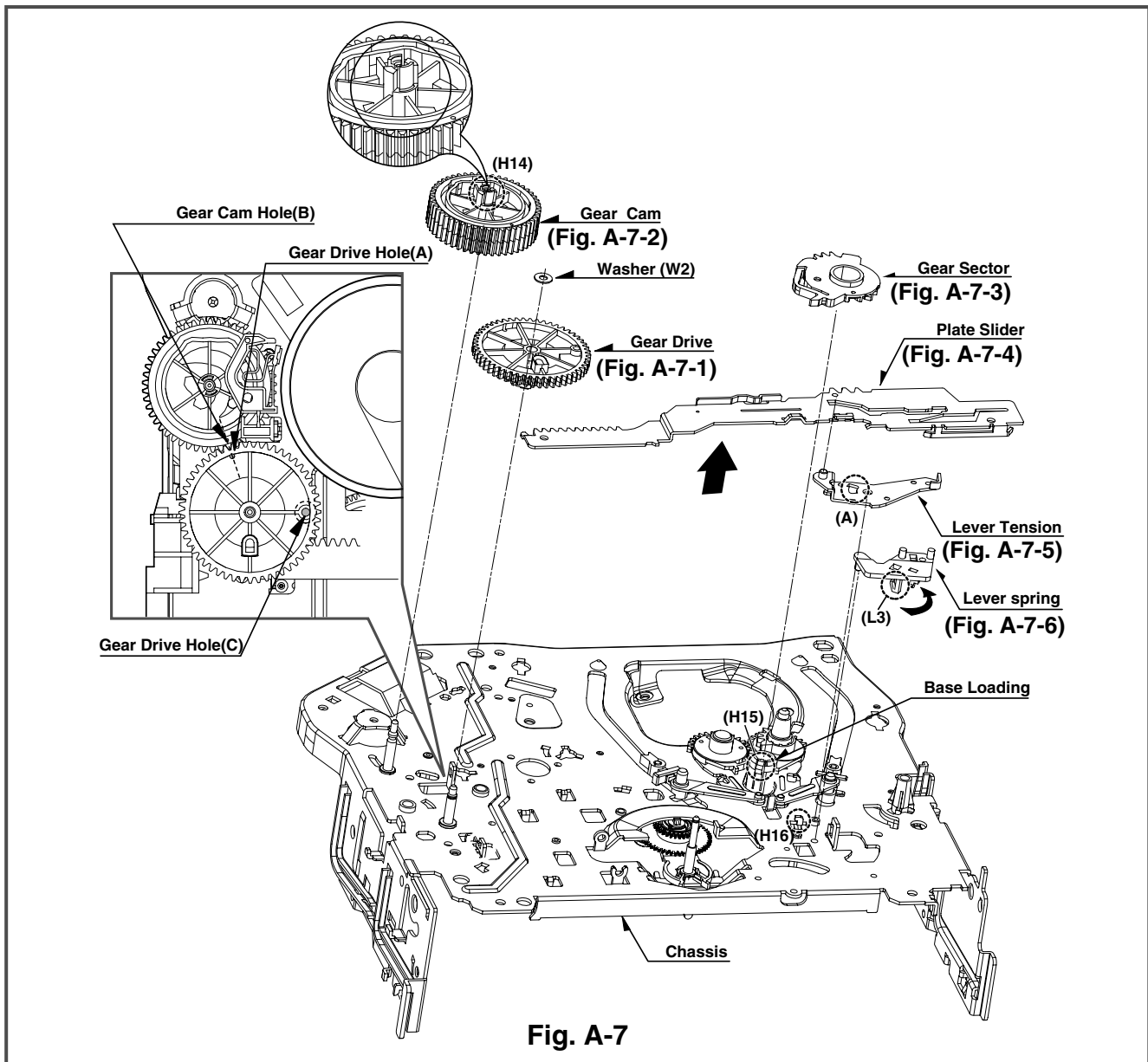


Fig. A-7

24. Gear Drive (Fig. A-7-1)/ Gear Cam (Fig. A-7-2)

- 1) Remove the Washer(W2) and lift the Gear Drive up.
- 2) Unhook the Hook(H14) of the Gear Cam and lift the Gear Cam up.

NOTE

When reassembling, align the Gear Drive Hole(A) and the Gear Cam Hole(B) in a straight line after the Gear Drive Hole(C) is aligned with the Chassis Hole as Fig.

25. Gear Sector (Fig. A-7-3)

- 1) Unhook the Hook(H15) of the Base Loading on bottom Chassis and lift the Gear Sector up.

26. Plate Slider (Fig. A-7-4)

- 1) Just lift the Plate Slider up.

27. Lever Tension (Fig. A-7-5)

- 1) Unhook the (A) portion of the Lever Tension from the Hook(H16) of the Chassis.
- 2) Turn the Lever Tension to counterclockwise direction and lift it up.

28. Lever Spring (Fig. A-7-6)

- 1) Unlock the Locking Tab(L3) of the bottom Chassis and lift the Lever Spring up.

DECK MECHANISM DISASSEMBLY

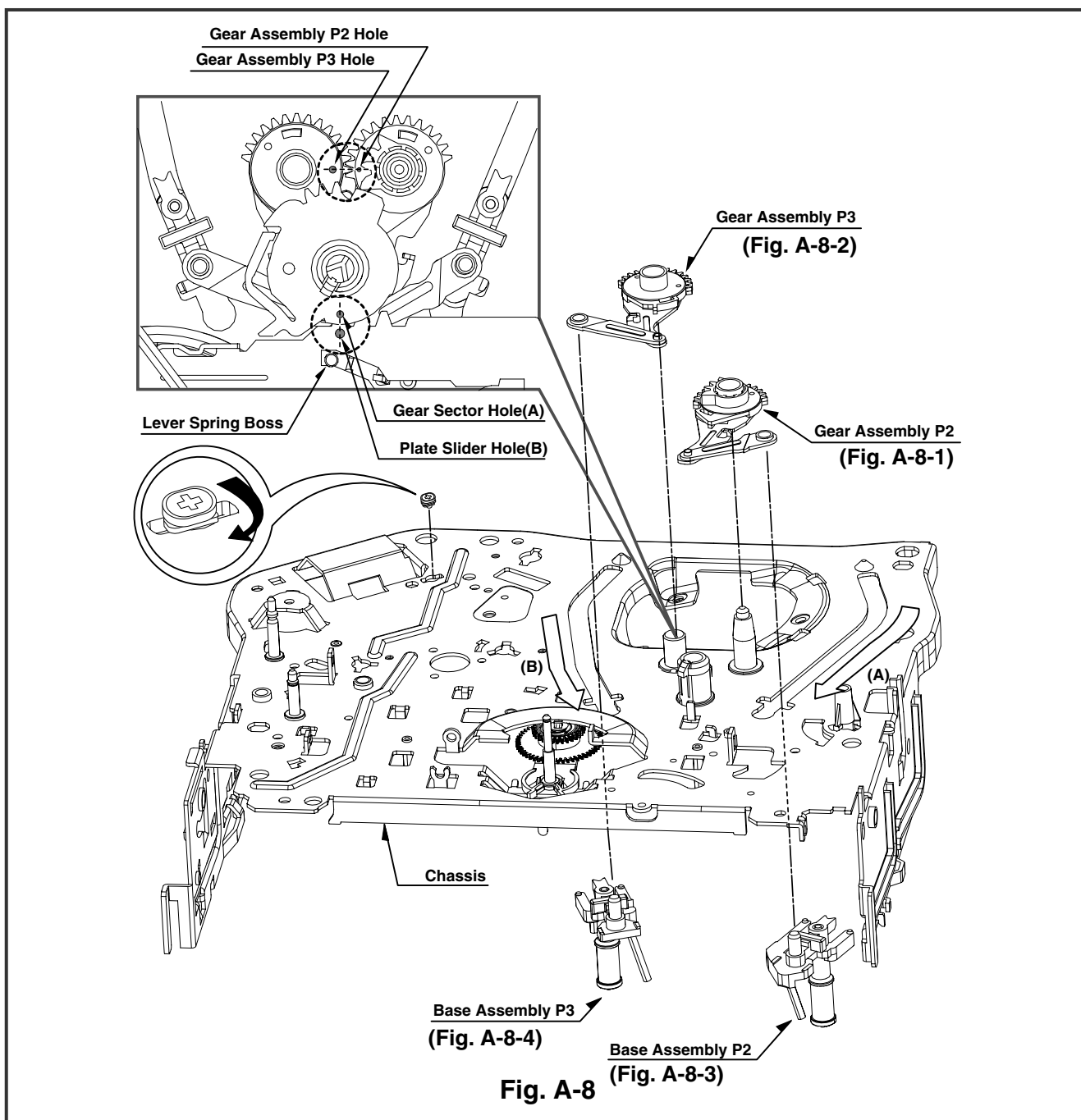


Fig. A-8

29. Gear Assembly P2 (Fig. A-8-1)/ Gear Assembly P3 (Fig. A-8-2)

- 1) Just lift the Gear Assembly P2 up.
- 2) Just lift the Gear Assembly P3 up.

NOTE

When reassembling, align the two holes of the Gear Assembly P2 and P3 in a straight line after confirmation whether the Gear Sector Hole(A) and the Plate Slider Hole(B) are aligned or not as Fig.

30. Base Assembly P2 (Fig. A-8-3)/ Base Assembly P3 (Fig. A-8-4)

- 1) Move the Base Assembly P2 in direction of arrow(A) along the guide hole of the Chassis and disassemble it on bottom side.
- 2) Move the Base Assembly P3 in direction of arrow(B) along the guide hole of the Chassis and disassemble it on bottom side.

DECK MECHANISM DISASSEMBLY

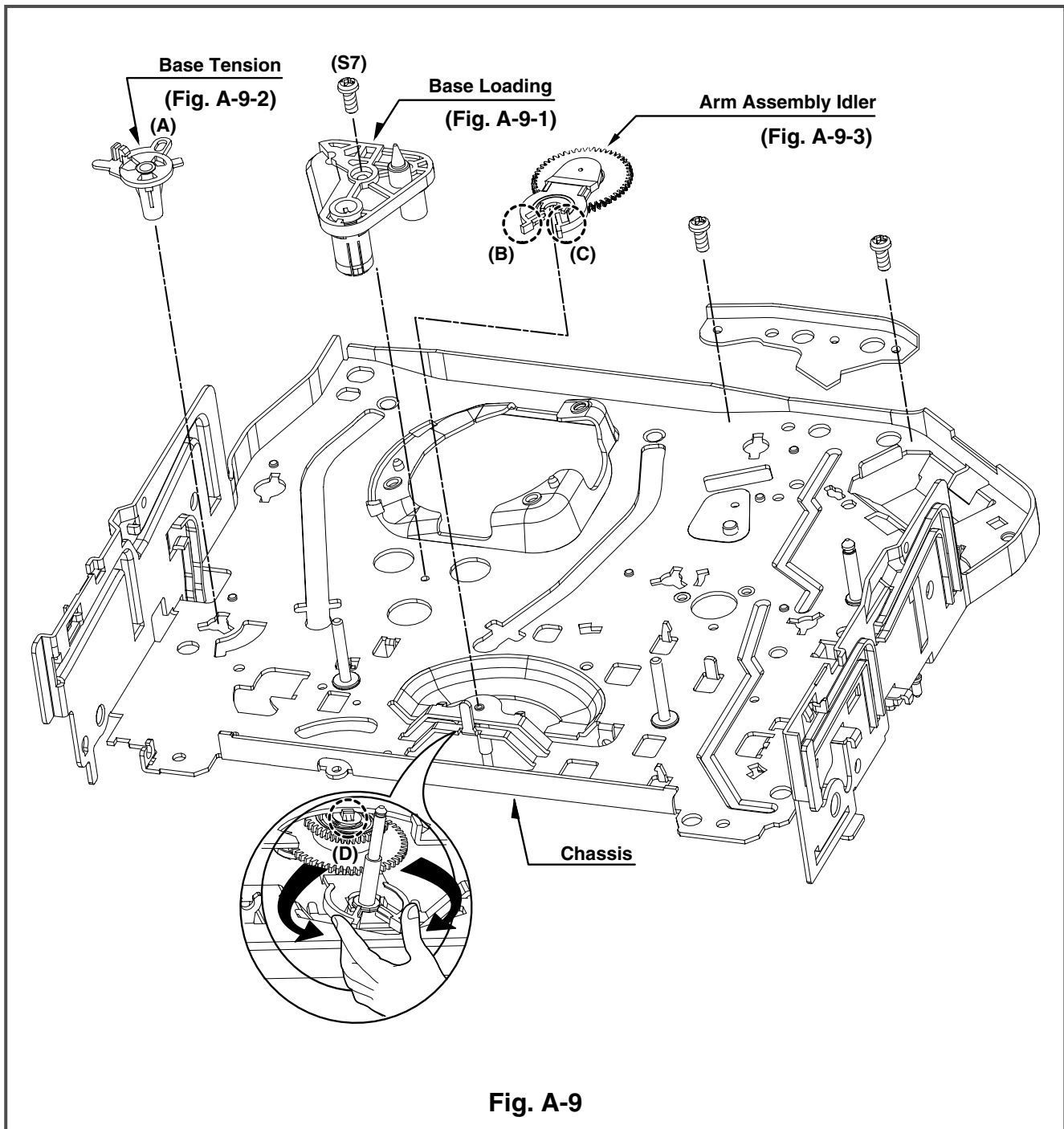


Fig. A-9

31. Base Loading (Fig. A-9-1)

- 1) Remove the Screw(S7).
- 2) Lift the Base Loading up.

32. Base Tension (Fig. A-9-2)

- 1) Breakaway the (A) portion of the Base Tension from the embossing of the Chassis.
- 2) Turn the Base Tension to counterclockwise direction and lift it up.

33. Arm Assembly Idler (Fig. A-9-3)

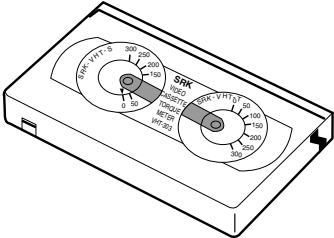
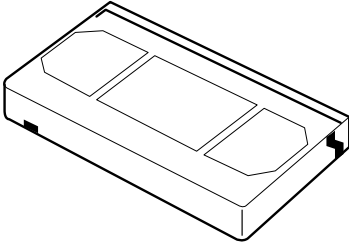
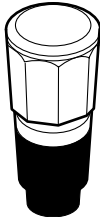
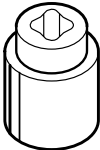
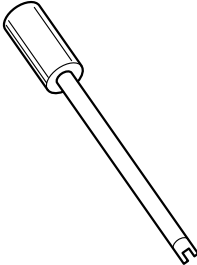
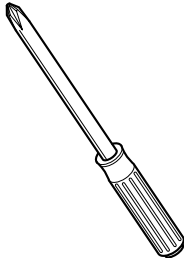
- 1) Make narrower the two parts, (B) and (C), as Fig. A-9-3.
- 2) Lift the Arm assembly Idler up.

NOTE

When disassembling, be careful not to be caught the (D) part by the Chassis as Fig.

DECK MECHANISM ADJUSTMENT

• Tools and Fixfures for Service

<p>1. Cassette Torque Meter SRK-VHT-303(Not SVC part) Parts No: D00-D006</p> 	<p>2. Alignment Tape Parts No NTSC: DTN-001 PAL:DTN-0002</p> 	<p>3. Torque Gauge 600g.Cm ATG Parts No:D00-D002</p> 
<p>4. Torque Gauge Adaptor Parts No:D09-R001</p> 	<p>5. Post Height Adjusting Driver Parts No:DTL-0005</p> 	<p>6. + Type Driver (ø 5)</p> 

DECK MECHANISM ADJUSTMENT

1. Mechanism Alignment Position Check

Purpose: To determine if the Mechanism is in the correct position, when a Tape is ejected.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Check Point
• Blank tape	• Eject Mode (with Cassette ejected)	• Mechanism and Mode Switch Position

- 1) Turn the Power S/W on and eject the Cassette by pressing the Eject Button.
- 2) Remove the Top Cover and Plate Assembly Top, visually check if the Gear Cam Hole is aligned with the Chassis Hole as below Fig. C-2.
- 3) IF not, rotate the Shaft of the Loading Motor to either clockwise or counterclockwise until the alignment is as below Fig. C-2.
- 4) Remove the Screw which fixes the Deck Mechanism and Main Frame and confirm if the Gear Cam is aligned with the Gear Drive as below Fig. C-1(A).
- 5) Confirm if the Mode S/W on the Main P.C.Board is aligned as below Fig. C-1(B).
- 6) Remount the Deck Mechanism on the Main P.C.Board and check each operation.

CHECK DIAGRAM

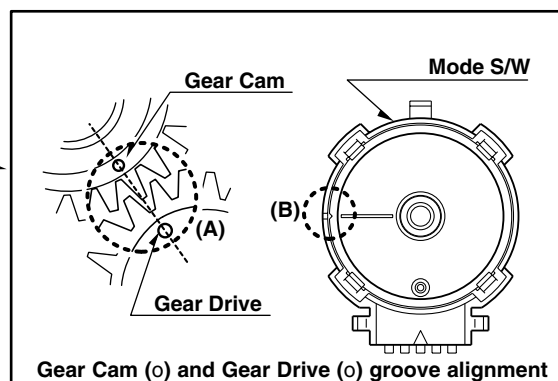
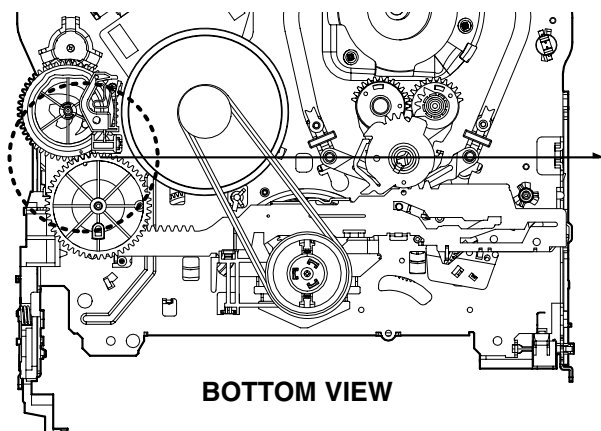


Fig. C-1

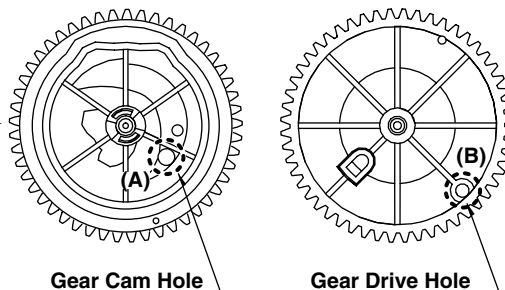
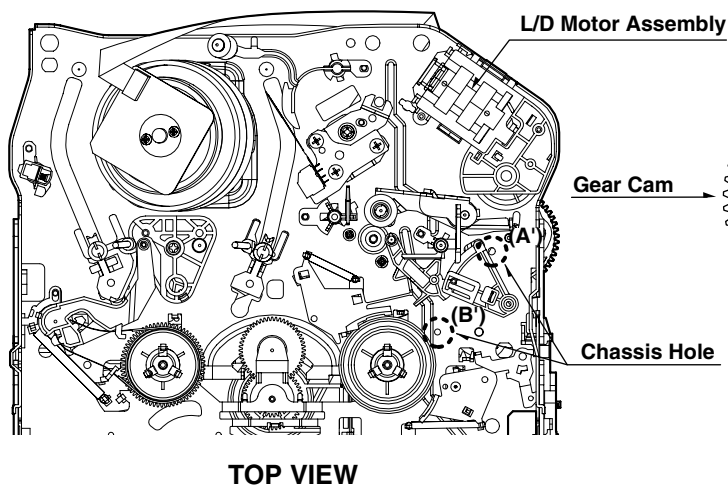


Fig. C-2

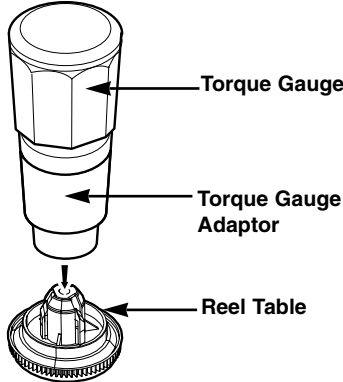
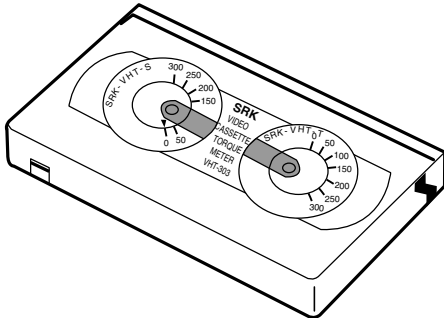
DECK MECHANISM ADJUSTMENT

2. Preparation for Adjustment (To set the Deck Mechanism of the loading state without inserting a cassette tape).

- 1) Unplug the power cord from the AC outlet.
- 2) Disassemble the Top Cover and Plate Assembly Top.
- 3) Plug the power cord into the AC outlet.
- 4) Turn the power S/W on and push the Lever Stopper of the Holder Assembly CST to the back for loading the

cassette without tape.
Cover the holes of the End Sensors at the both sides of the Chassis to prevent a light leak.
Then the Deck Mechanism drives to the Stop Mode.
In this case, the Deck Mechanism can accept inputs of each mode, however the Rewind and Review operation can not be performed for more than a few seconds because the Take-up Reel Table is in the Stop State and can not be detected the Reel Pulses.

3. Checking Torque

Purpose: To insure smooth transport of the tape during each mode of operation. If the tape transport is abnormal, then check the torque as indicated by the chart below.				
Test Equipment/ Fixture		Test Conditions (Mechanism Condition)	Checking Method	
<ul style="list-style-type: none">• Torque Gauge(600g/cm ATG)• Torque Gauge Adaptor• Cassette Torque Meter SRK-VHT-303		<ul style="list-style-type: none">• Play (FF) or Review (REW) Mode	<ul style="list-style-type: none">• Perform each Deck Mechanism mode without inserting a cassette tape(Refer to above No.2 Preparation for Adjustment).• Read the measurement of the Take-up or Supply Reels on the Cassette Torque Meter(Fig. C-3-2).• Attach the Torque Gauge Adaptor to the Torque Gauge and then read the value of it(Fig. C-3-1).	
Item	Mode	Test Equipment	Measurement Reel	Measurement Values
Fast Forward Torque	Fast Forward	Cassette Torque Gauge	Take-Up Reel	More than 400g/cm
Rewind Torque	Rewind	Cassette Torque Gauge	Supply Reel	More than 400g/cm
Play Take-Up Torque	Play	Cassette Torque Meter	Take-Up Reel	40~100g/cm
Review Torque	Review	Cassette Torque Meter	Supply Reel	120~210g/cm
<div><div><div>NOTE: The values are measured by using a Torque Gauge and Torque Gauge Adaptor with the Torque Gauge affixed.</div><div><ul style="list-style-type: none">• Torque Gauge (600g.cm ATG)<p>Fig. C-3-1</p></div><div><div>NOTE: The torque reading to measure occurs when the tape abruptly changes direction from Fast Forward to Rewind Mode, when quick braking is applied to both Reels.</div><div><ul style="list-style-type: none">• Cassette Torque Meter (SRK-VHT-303)<p>Fig. C-3-2</p></div></div></div></div>				

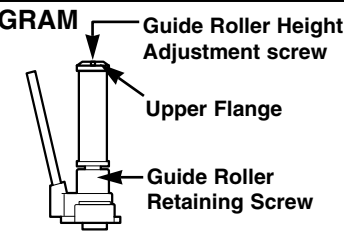
DECK MECHANISM ADJUSTMENT

4. Guide Roller Height Adjustment

Purpose: To regulate the height of the tape so that the bottom of the tape runs along the tape guide line on the Lower Drum.

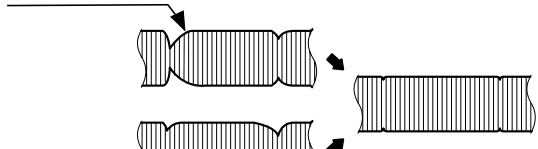
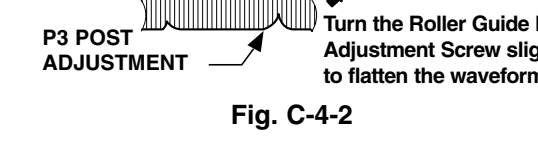
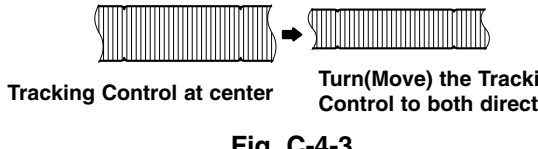
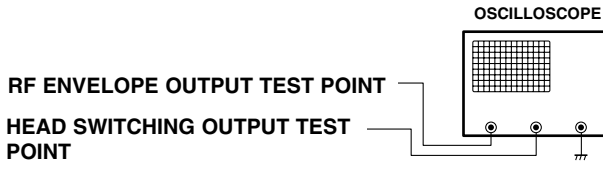
4-1. Preliminary Adjustment

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Post Height Adjusting Driver	• Play or Review Mode	• Guide Roller Height Adjustment screws on the Supply and Take-Up Guide Rollers.

Adjustment Procedure <ol style="list-style-type: none"> 1) Confirm if the tape runs along the tape guide line of the Lower Drum. 2) If the tape runs the bottom of the guide line, turn the Guide Roller Height Adjustment Screw to clockwise direction. 3) If it runs the top, turn to counterclockwise direction. 4) Adjust the height of the Guide Roller to be guided to the guide line of the Lower Drum from the starting and ending point of the Drum. 	ADJUSTMENT DIAGRAM  <p>Fig. C-4-1</p>
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4-2. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	Test Conditions VCR(VCP) State	Adjustment Point
• Oscilloscope • Alignment Tape • Post Height Adjusting Driver	• CH-1:PB RF Envelope • CH-2:NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Point • RF Envelope Output Point	• Play an Alignment Tape	• Guide Roller Height Adjustment Screws

Adjustment Procedure <ol style="list-style-type: none"> 1) Play an Alignment Tape after connecting the probe of the Oscilloscope to the RF Envelope Output Test Point and Head Switching Output Test Point. 2) Tracking Control(in PB Mode) : Center Position(When this adjustment is performed after the Drum Assembly has been replaced, set the Tracking Control so that the RF Output is Maximum). 3) Height Adjustment Screw : Flatten the RF waveform. (Fig. C-4-2) 4) Turn(Move) the Tracking Control(in PB Mode) clockwise and counterclockwise.(Fig. C-4-3) 5) Check that any drop of RF Output is uniform at the start and end of the waveform. <p>NOTE If the adjustment is excessive or insufficient the tape will jam or fold.</p>	Waveform Diagrams <p>P2 POST ADJUSTMENT</p>  <p>P3 POST ADJUSTMENT</p>  <p>Fig. C-4-2</p> <p>Tracking Control at center</p>  <p>Fig. C-4-3</p> <p>Connection Diagram</p> 
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DECK MECHANISM ADJUSTMENT

5. Audio/Control (A/C) Head Adjustment

Purpose: To insure that the tape passes accurately over the Audio and Control Tracks in exact alignment of the both Record and Playback Modes.

5-1. Preliminary Adjustment (Height and Tilt Adjustment)

Perform the Preliminary Adjustment, when there is no Audio Output Signal with the Alignment Tape.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none">• Blank Tape• Screw Driver(+) Type 5mm	<ul style="list-style-type: none">• Play the blank tape	<ul style="list-style-type: none">• Tilt Adjustment Screw(C)• Height Adjustment Screw(B)• Azimuth Adjustment Screw(A)

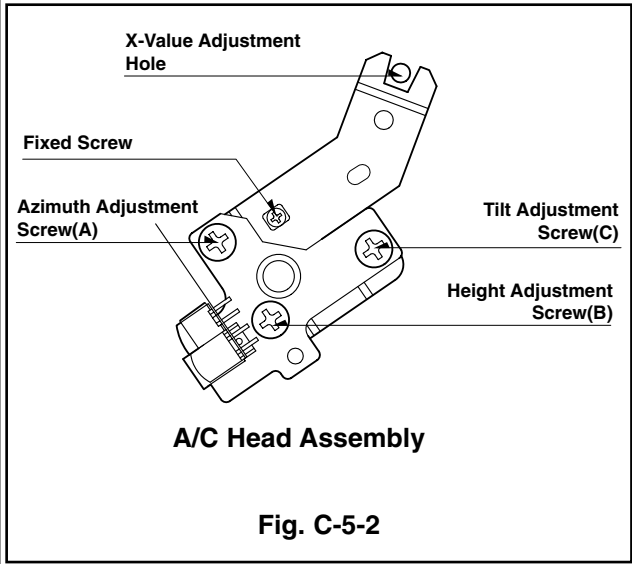
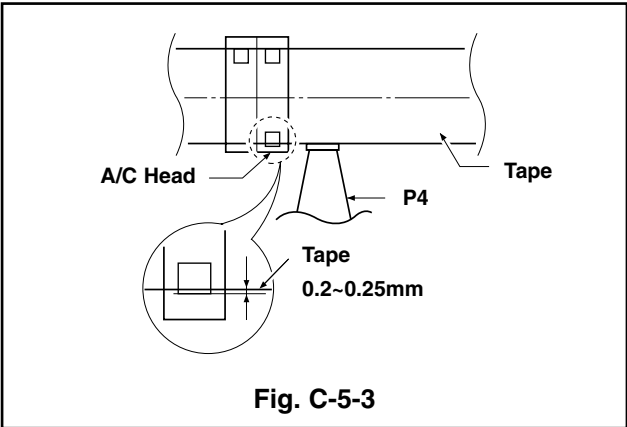
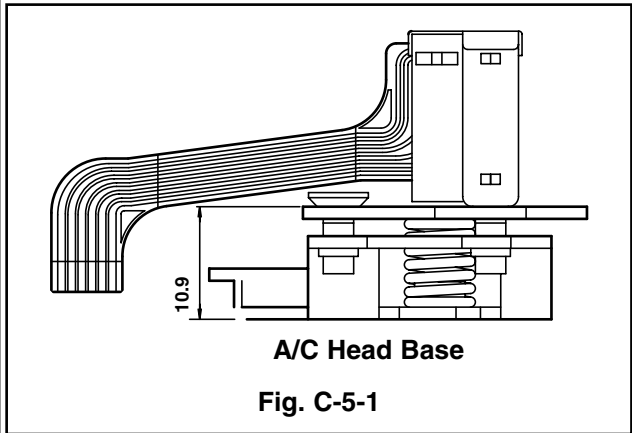
Adjustment Procedure/Diagrams

- 1) Initially adjust the Base Assembly A/C Head as shown Fig. C-5-1 by using the Height Adjustment Screw(B).

2) Play a blank tape and observe if the tape passes accurately over the A/C Head without tape curling or folding.

3) If folding or curling is occurred then adjust the Tilt Adjustment Screw(C) while the tape is running to resemble Fig. C-5-3.
- 4) Reconfirm the tape path after Playback about 4~5 seconds.

NOTE
Ideal A/C head height occurs when the tape runs between 0.2~0.25mm above the bottom edge of the A/C Head core.



DECK MECHANISM ADJUSTMENT

5-2. Confirm that the tape passes smoothly between the Take-up Guide and Pinch Roller(using a mirror or the naked eye).

- After completing Step 5-1.(Preliminary Adjustment), check that the tape passes around the Take-up Guide and Pinch Roller without folding or curling at the top or bottom.
 - If folding or curling is observed at the bottom of the Take-up Guide then slowly turn the Tilt Adjustment Screw(C) in the clockwise direction.

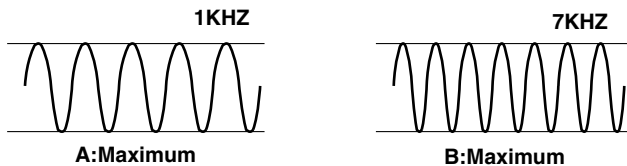
- If folding or curling is observed at the top of it then slowly turn the Tilt Adjustment Screw(C) in the counterclockwise direction.

NOTE:

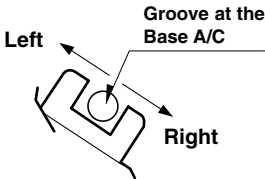
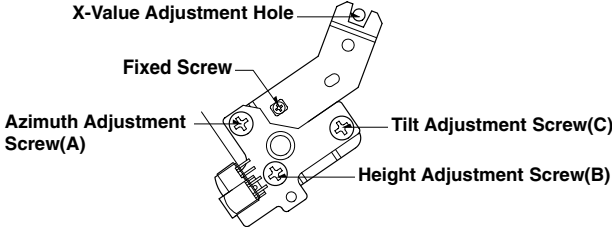
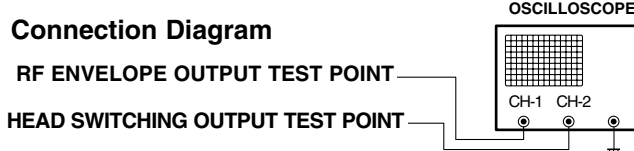
Check the RF envelope after adjusting the A/C Head, if the RF waveform differs from Fig. C-5-4, performs Precise Adjustment to flat the RF waveform.

5-3. Precise Adjustment (Azimuth adjustment)

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none"> Oscilloscope Alignment Tape(SP) Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> Audio output jack 	<ul style="list-style-type: none"> Play an Alignment Tape 1KHz, 7KHz Sections 	<ul style="list-style-type: none"> Azimuth Adjustment Screw(A) Height Adjustment Screw(B)
Adjustment Procedure <ol style="list-style-type: none"> Connect the probe of the oscilloscope to Audio Output Jack. Alternately adjust the Azimuth Adjustment Screw(A) and the Tilt Adjustment Screw(C) for maximum output of the 1KHz and 7KHz segments, while maintaining the flattest envelope differential between the two frequencies. 			

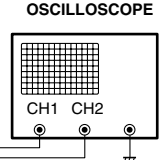
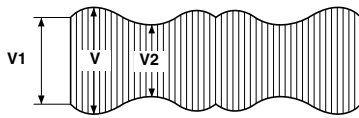


6. X-Value Adjustment

Purpose: To obtain compatibility with the other VCR(VCP) Models.			
Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none">• Oscilloscope• Alignment Tape(SP only)• Screw Driver(+) Type 5mm	<ul style="list-style-type: none">• CH-1: PB RF Envelope• CH-2: NTSC: SW 30Hz PAL: SW 25Hz• Head Switching Output Test Point• RF Envelope Output Test Point	<ul style="list-style-type: none">• Play an Alignment Tape	
Adjustment Procedure 1) Release the Automatic Tracking to run long enough for tracking to complete it's cycle. 2) Loosen the Fixed Mounting Screw and move the Base Assembly A/C Head in the direction as shown in the diagram to find the center of the peak that allows for the maximum waveform envelope. This method should allow the 31μm Head to be centrally located over the 58μm tape track. 3) Tighten the Base Assembly A/C Head mounting Screw.		Adjustment Diagram 	
		Connection Diagram 	

DECK MECHANISM ADJUSTMENT

7. Adjustment after Replacing Drum Assembly (Video Heads)

Purpose: To correct for shift in the Roller Guide and X value after replacing the Drum.			
Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Points
<ul style="list-style-type: none"> Oscilloscope Alignment Tapes Blank Tape Post Height Adjusting Driver Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> CH-1: PB RF Envelope CH-2: NTSC: SW 30Hz PAL: SW 25Hz Head Switching Output Test Point RF Envelope Output Test Point 	<ul style="list-style-type: none"> Play the Blank Tape Play an Alignment Tape 	<ul style="list-style-type: none"> Guide Roller Precise Adjustment Switching Point Tracking Preset X-Value
Checking/Adjustment Procedure Play a blank tape and check for tape curling or creasing around the Roller Guide. If there is a problem then follow the procedure 4. "Guide Roller Height" and 5. "Audio Control(A/C) Head Adjustment".		Connection Diagram  Waveform $V1/V \text{ MAX} \leq 0.7$ $V2/V \text{ MAX} \leq 0.8$ RF ENVELOPE OUTPUT  Fig. C-7	

8. Check the Tape Travel after Reassembling Deck Assembly.

8-1. Checking Audio and RF Locking Time during playback and after CUE or REV (FF/REW)

Test Equipment/ Fixture	Specification	Connection Points	Test Conditions (Mechanism Condition)
<ul style="list-style-type: none"> Oscilloscope Alignment Tapes(with 6H 3KHz Color Bar Signal) Stop Watch 	<ul style="list-style-type: none"> RF Locking Time: Less than 5 sec. Audio Locking Time: Less than 10sec 	<ul style="list-style-type: none"> CH-1: PB RF Envelope CH-2: Audio Output RF Envelope Output Point Audio Output Jack 	<ul style="list-style-type: none"> Play an Alignment Tape (with 6H 3kHz Color Bar Signal)
Checking Procedure Play an Alignment Tape then change the operating mode to CUE or REV and confirm if the unit meets the above listed specifications.		NOTES: 1) CUE is the forward search mode 2) REV is the backward search mode 3) Refer to the Play mode	

8-2. Checking for tape curling or jamming

Test Equipment/ Fixture	Specification	Test Conditions (Mechanism Condition)
<ul style="list-style-type: none"> T-160 Tape T-120 Tape 	<ul style="list-style-type: none"> Be sure there is no tape jamming or curling at the beginning, middle or end of the tape. 	<ul style="list-style-type: none"> Run the CUE, REV, Play mode at the beginning and the end of the tape.
Checking Procedure 1) Confirm that the tape runs smoothly around the roller guides, Drum and A/C Head Assemblies while abruptly changing operating modes from Play to CUE or REV. This is to be checked at the beginning, middle and end sections of the tape. 2) Confirm that the tape passes over the A/C Head Assembly as indicated by proper audio reproduction and proper tape counter performance.		

MAINTENANCE/INSPECTION PROCEDURE

1. Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.

Check with the customer to find out how often the unit is used, and then determine that the unit is ready for inspection and maintenance. Check the following parts.

Phenomenon	Inspection	Replacement	
Color beats	Dirt on Full-Erase Head	o	F/E Head
Poor S/N, no color	Dirt on Video Head	o	Video Head
Vertical or Horizontal jitter	Dirt on Video Head Dirt on tape transport system	o	
Low volume, Sound distorted	Dirt on Audio/Control Head	o	A/C Head
Tape does not run. Tape is slack	Dirt on Pinch Roller	o	Pinch Roller
	Dirt on Belt Capston	o	Belt Capston
In Review and Unloading (off mode), the tape is rolled up loosely.	Clutch Assembly D35 torque reduced	o	Clutch Assembly D35
	Cleaning Drum and transport system	Fig. C-9-3	

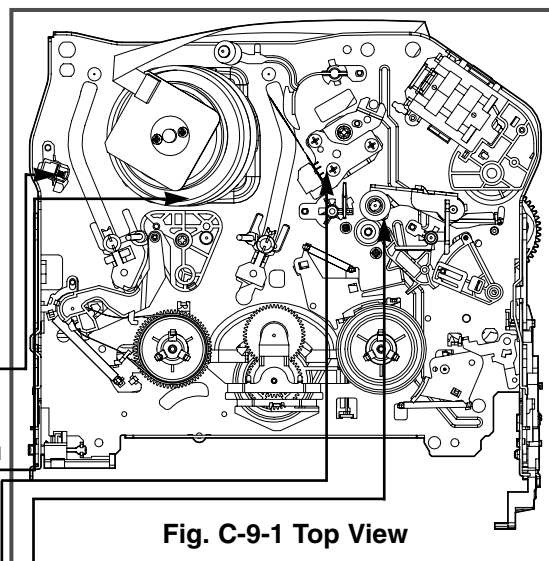


Fig. C-9-1 Top View

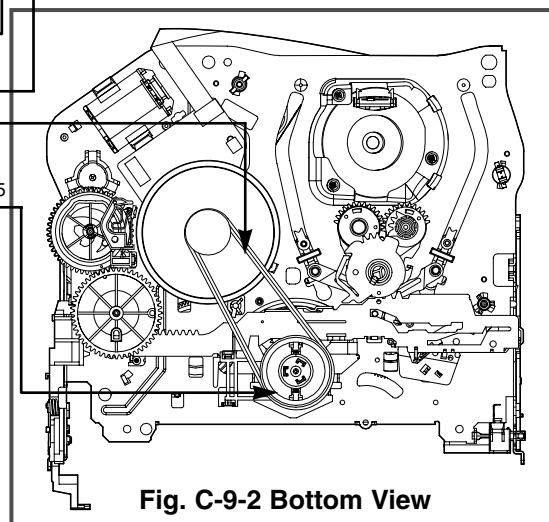


Fig. C-9-2 Bottom View

NOTE

If locations marked with **o** do not operate normally after cleaning, check for wear and replace.

See the EXPLODED VIEWS at the end of this manual as well as the above illustrations and see the Greasing (Page 4-21, 22) for the sections to be lubricated and greased.

* No. (1)~(12) Indicates the Tape Path to be traveled from Supply Reel to Take-up Reel.

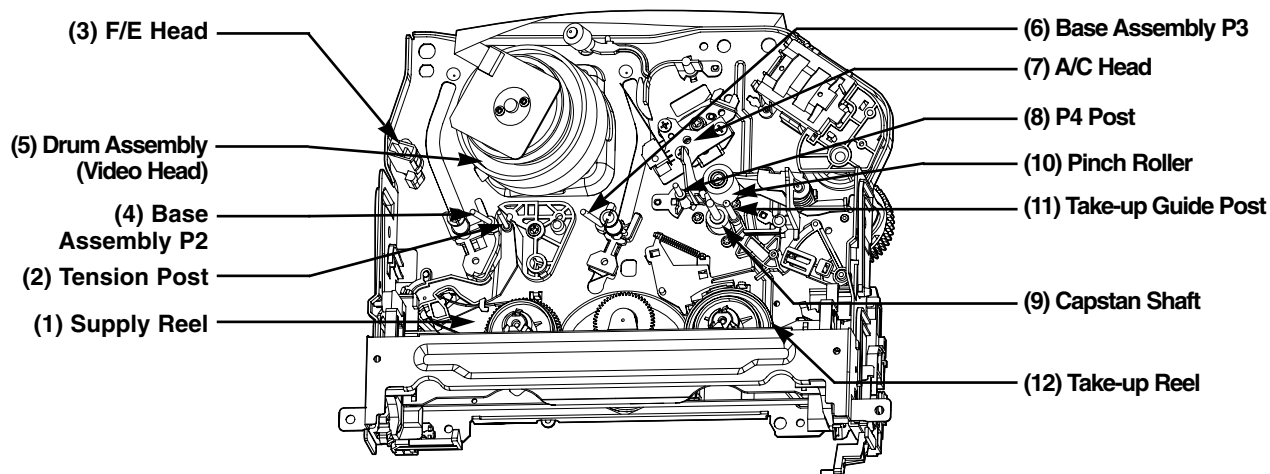


Fig. C-9-3 Tape Transport System

MAINTENANCE/INSPECTION PROCEDURE

2. Required Maintenance

The recording density of a VCR(VCP) is much higher than that of an audio tape recorder. VCR(VCP) components must be very precise, at tolerances of 1/1000mm, to ensure compatibility with the other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure a good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, is necessary.

3. Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR(VCP), and the environment in which the VCR(VCP) is used.

But, in general home use, a good picture will be maintained if inspection and maintenance is made every 1,000 hours. The table below shows the relation between time used and inspection period.

Table 1

When inspection is necessary Average hours used per day	About 1 year	About 18 months	About 3 years
One hour			
Two hours			
Three hours			

4. Supplies Required for Inspection and Maintenance

- (1) Grease : Kanto G-311G (Blue) or equivalent
- (2) Isopropyl Alcohol or equivalent
- (3) Cleaning Patches
- (4) Grease : Kanto G-381(Yellow)

5. Maintenance Procedure

5-1) Cleaning

- (1) Cleaning video head

First use a cleaning tape. If the dirt on the head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with Isopropyl Alcohol. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.

(Do not move the cleaning patch vertically. Make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)

Thoroughly dry the head. Then run the test tape. If Isopropyl Alcohol remains on the video head, the tape may be damaged when it comes into contact with the head surface.

- (2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with Isopropyl Alcohol.

NOTES:

- ① It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which moves the tape.
- ② Make sure that during cleaning you do not touch the tape transport system with excessive force that would cause deformation or damage to the system.

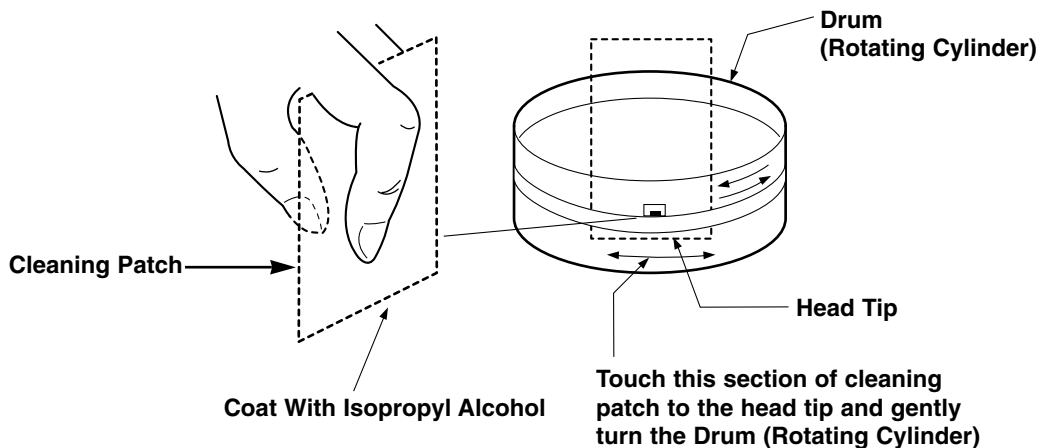


Fig. C-9-4

MAINTENANCE/INSPECTION PROCEDURE

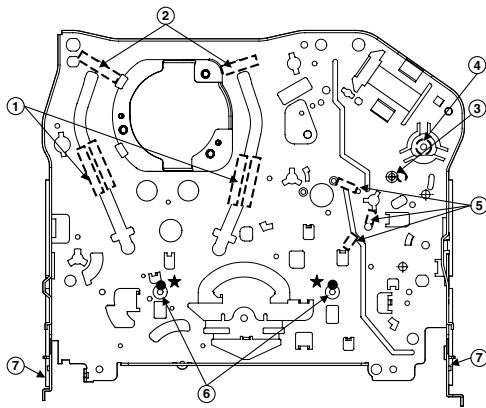
5-2) Greasing

(1) Greasing guidelines

Apply grease, with a cleaning patch. Do not use excessive grease. It may come into contact with the tape transport or drive system. Wipe excessive grease and clean with cleaning patch wetted in Isopropyl Alcohol.

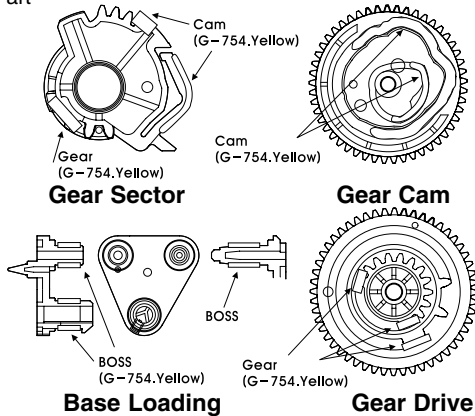
NOTE:Greasing Points

- | | |
|-----------------------------------|---------------------------------------|
| 1) Loading Path Inside & Top side | 5) Arm Take-up Rubbing Sections |
| 2) Base Assembly P2, P3 stopper | 6) Reel S,T shaft(G381:Yellow) |
| 3) Shaft | 7) Arm Assembly F/L Rotating Sections |
| 4) L/D Motor Gear Wheel Part | |



Chassis (Top)

Gear Part



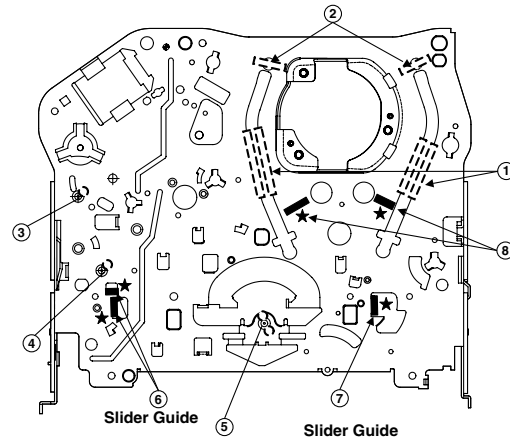
Chassis (Left Side)

Chassis (Right Side)

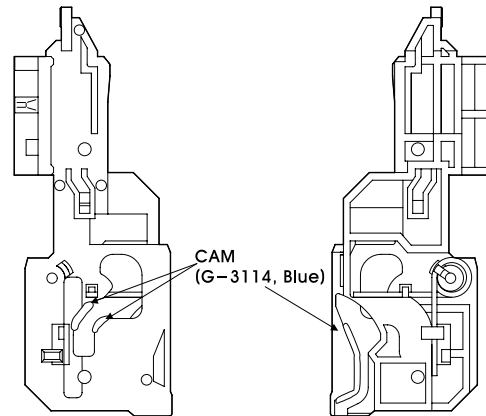
(2) Periodic greasing

Grease specified locations every 5,000 hours.

- | | |
|-----------------------------------|--|
| 1) Loading Path Inside & Top side | 6) Plate Slider Guide Sections |
| 2) Base Assembly P2,P3 stopper | 7) Plate Slider Guide Sections |
| 3) Shaft | 8) Gear Assembly P2, P2 Rubbing Sections |
| 4) Shaft | |
| 5) Clutch Assembly D35 Shaft | |



Chassis (Bottom)



Gear Rack F/L

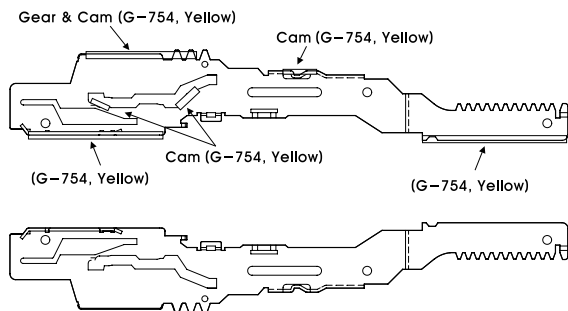
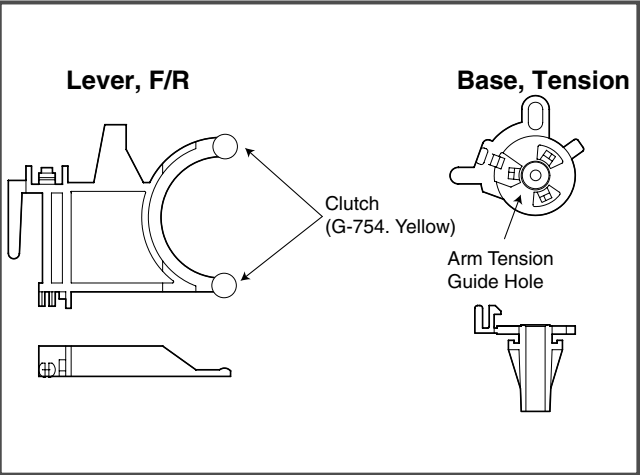


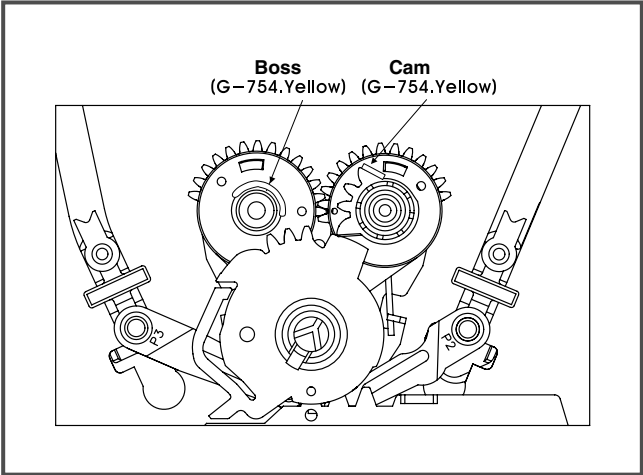
Plate Slider

MAINTENANCE/INSPECTION PROCEDURE

Lever, F/R, Base, Tension



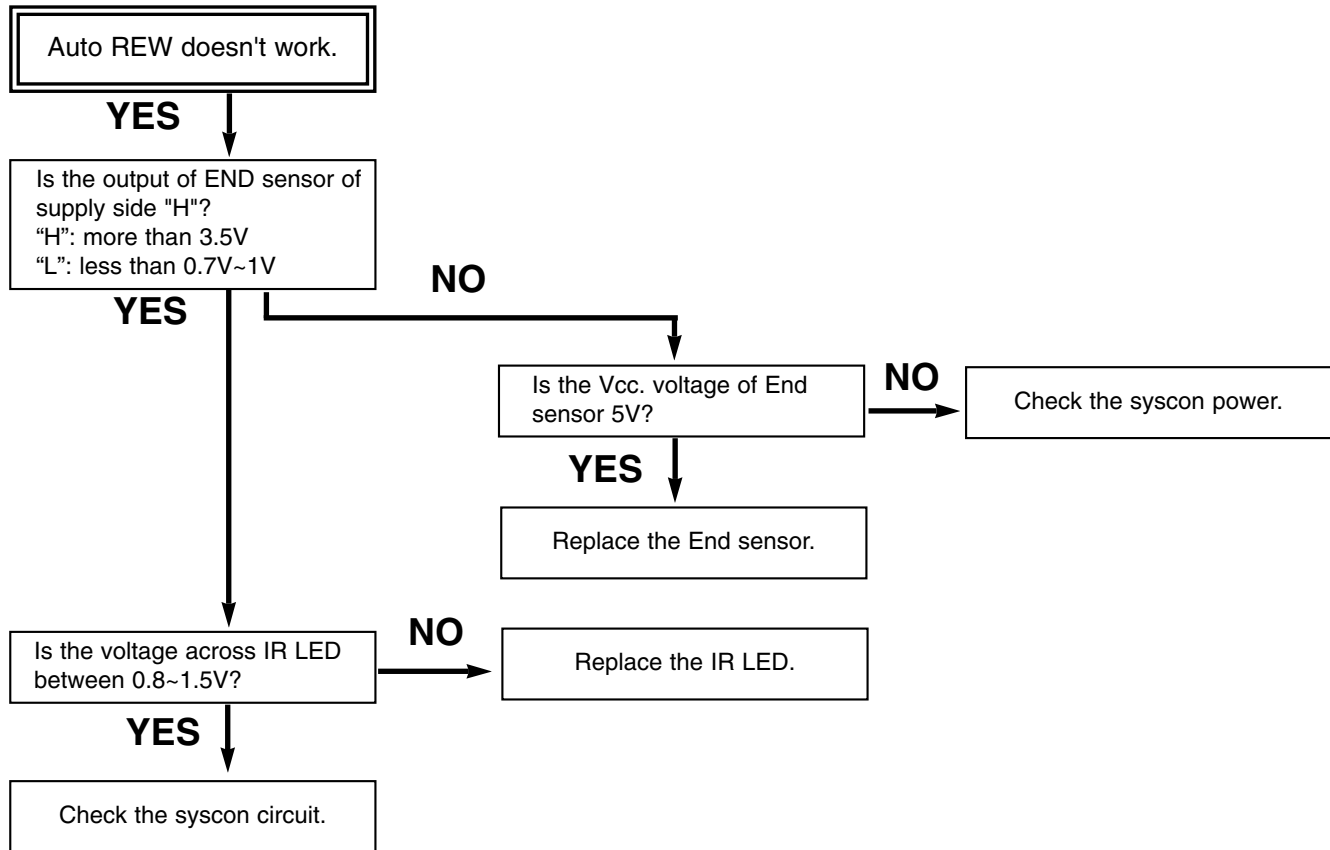
GEAR AY, P2 & P3



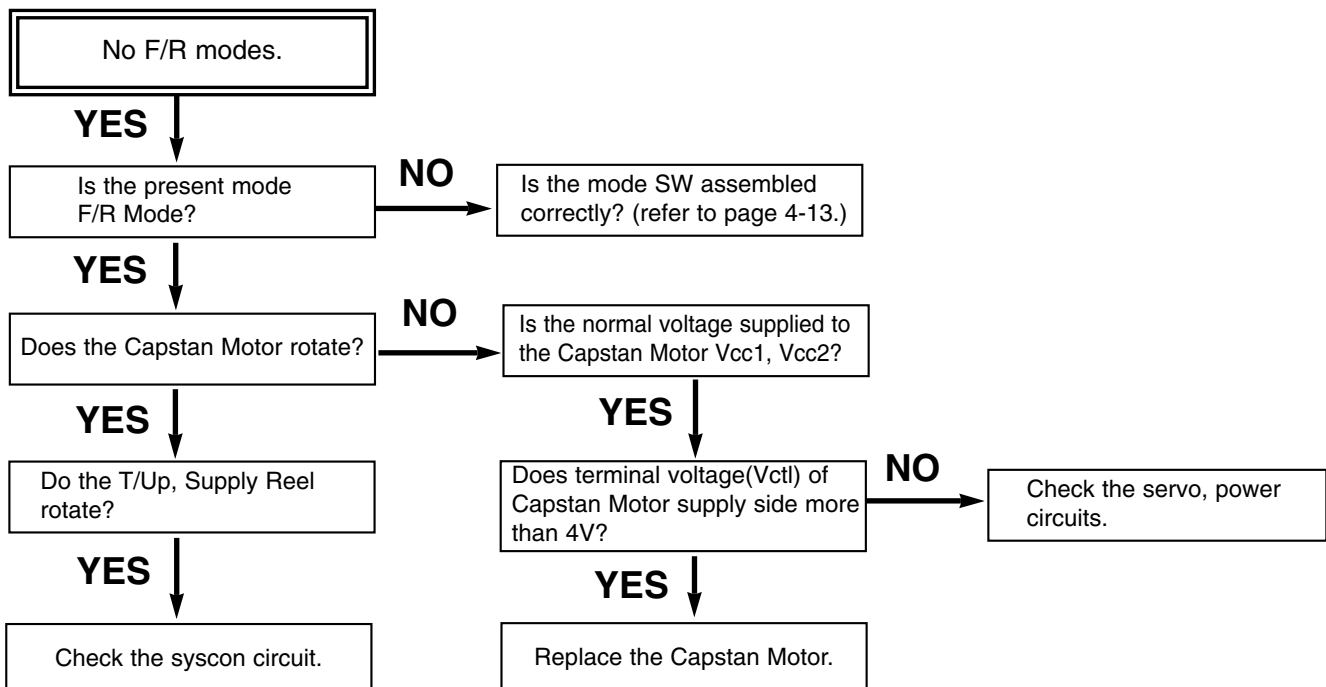
MECHANISM TROUBLESHOOTING GUIDE

1. Deck Mechanism

A.

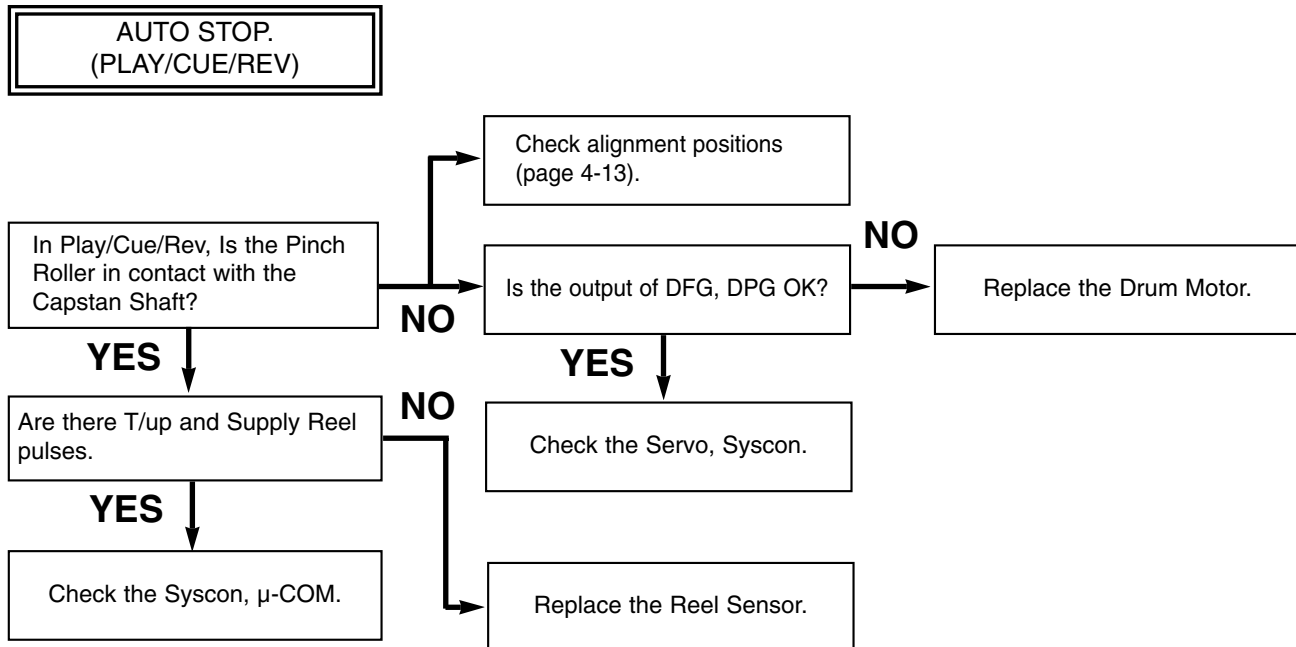


B.

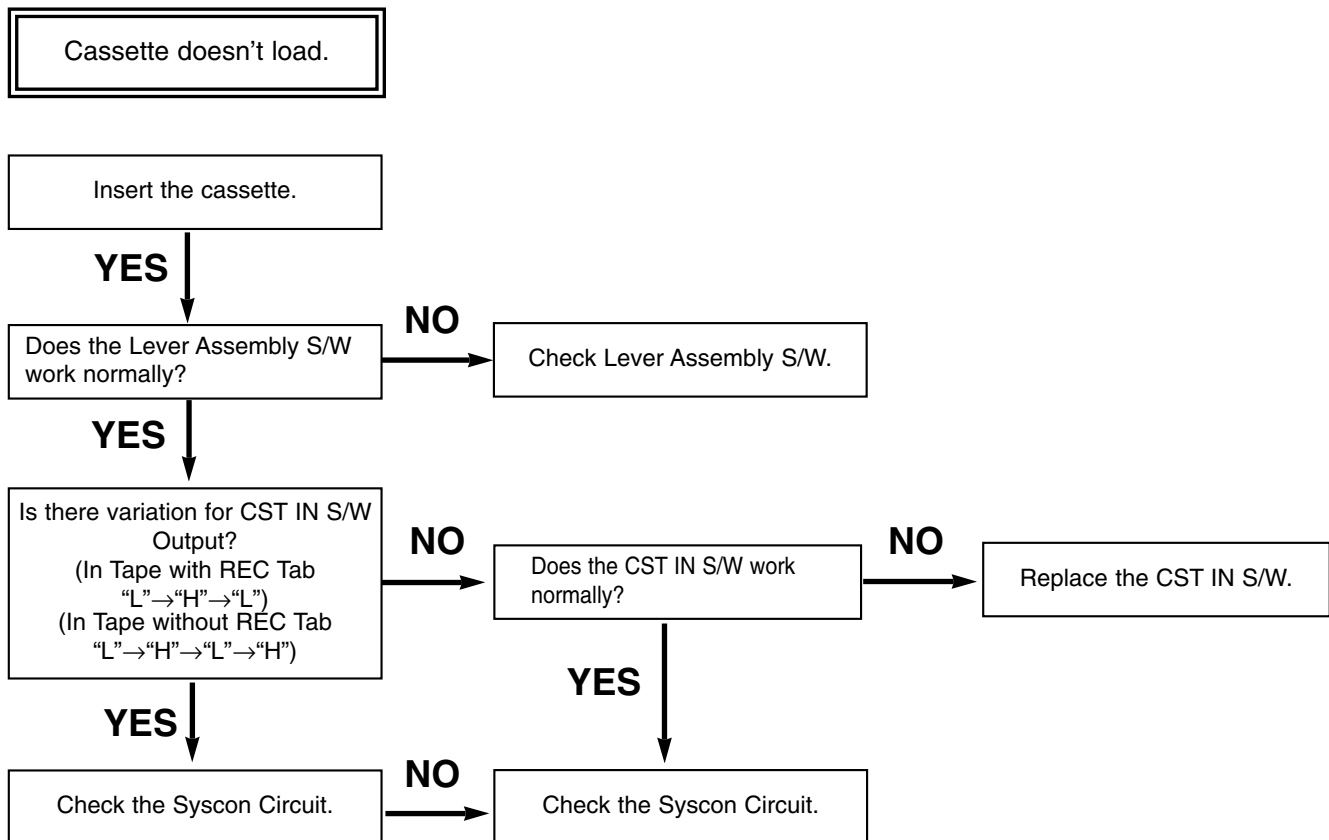


MECHANISM TROUBLESHOOTING GUIDE

C.

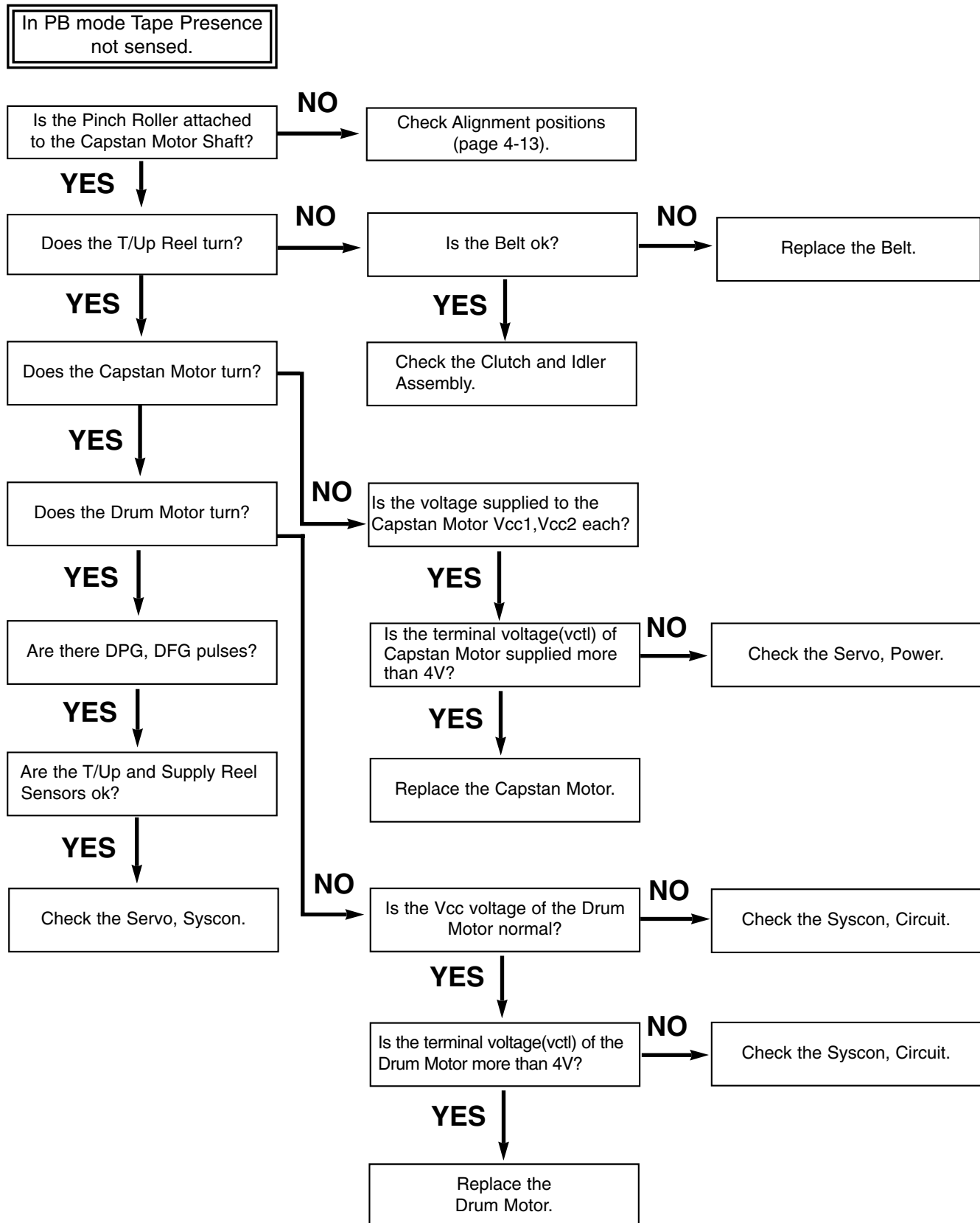


D.



MECHANISM TROUBLESHOOTING GUIDE

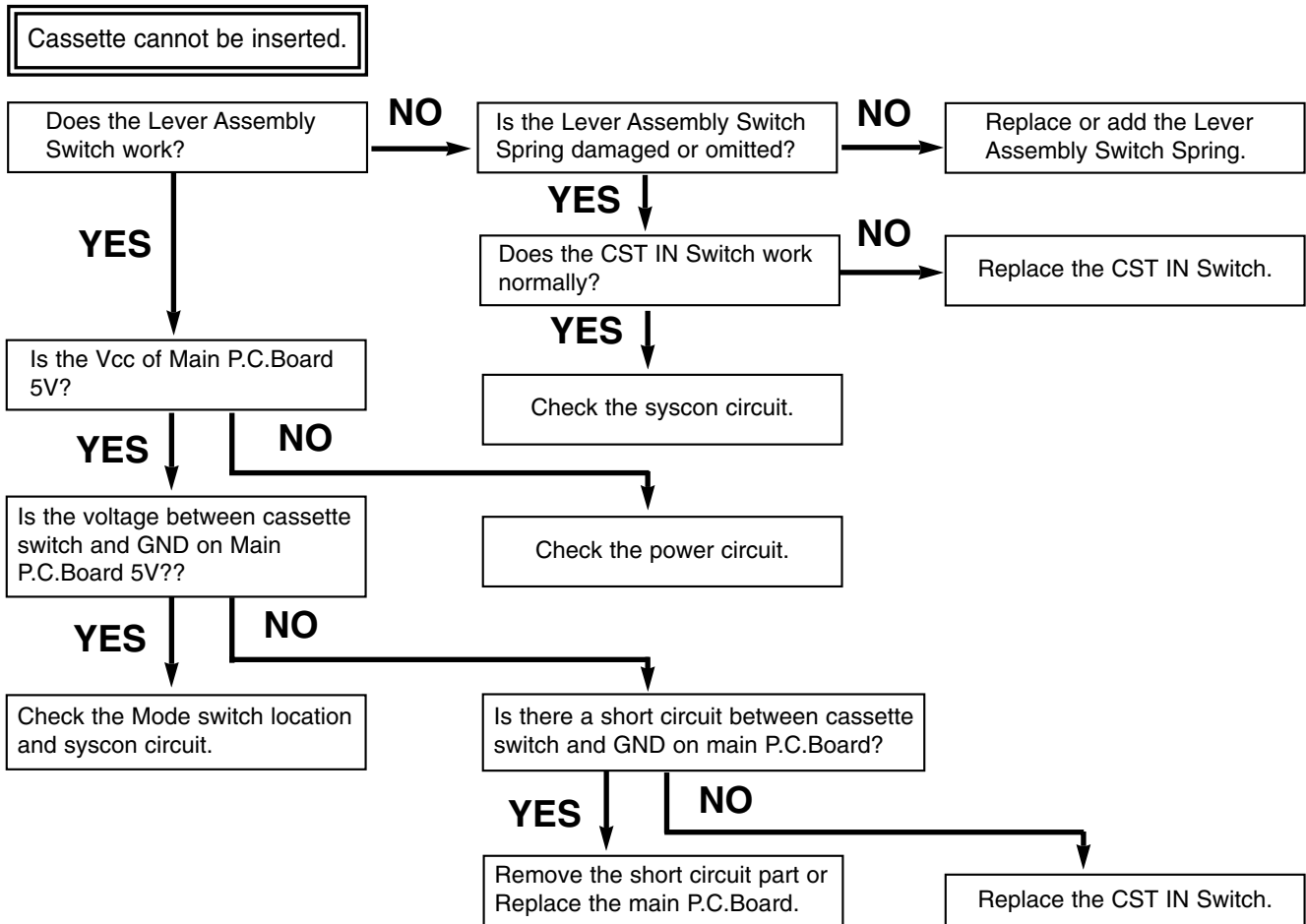
E.



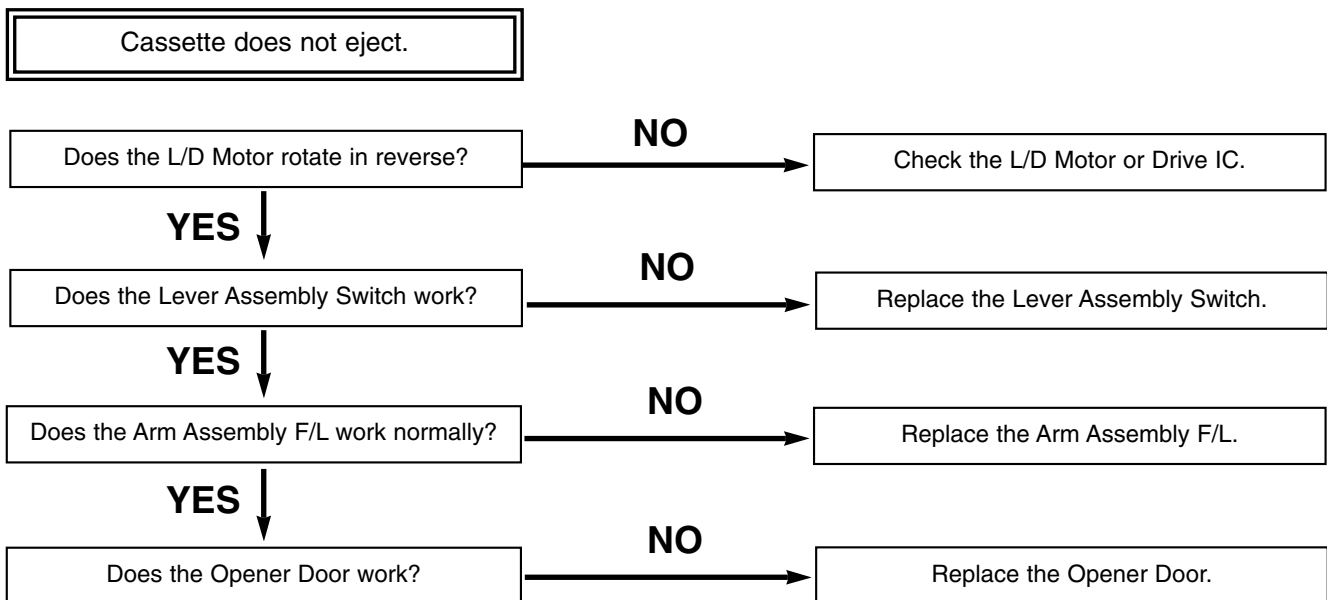
MECHANISM TROUBLESHOOTING GUIDE

2. Front Loading Mechanism

A.

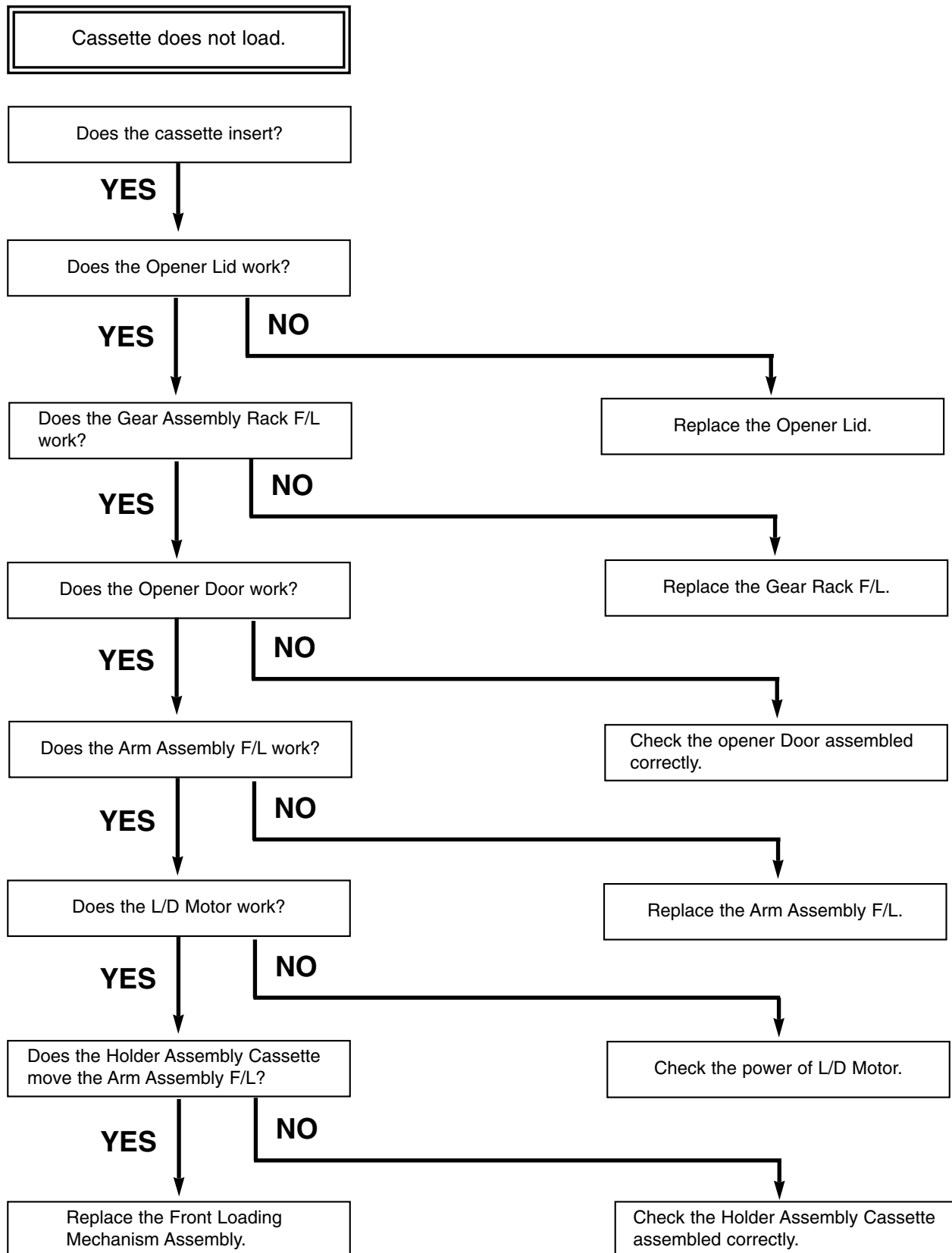


B.



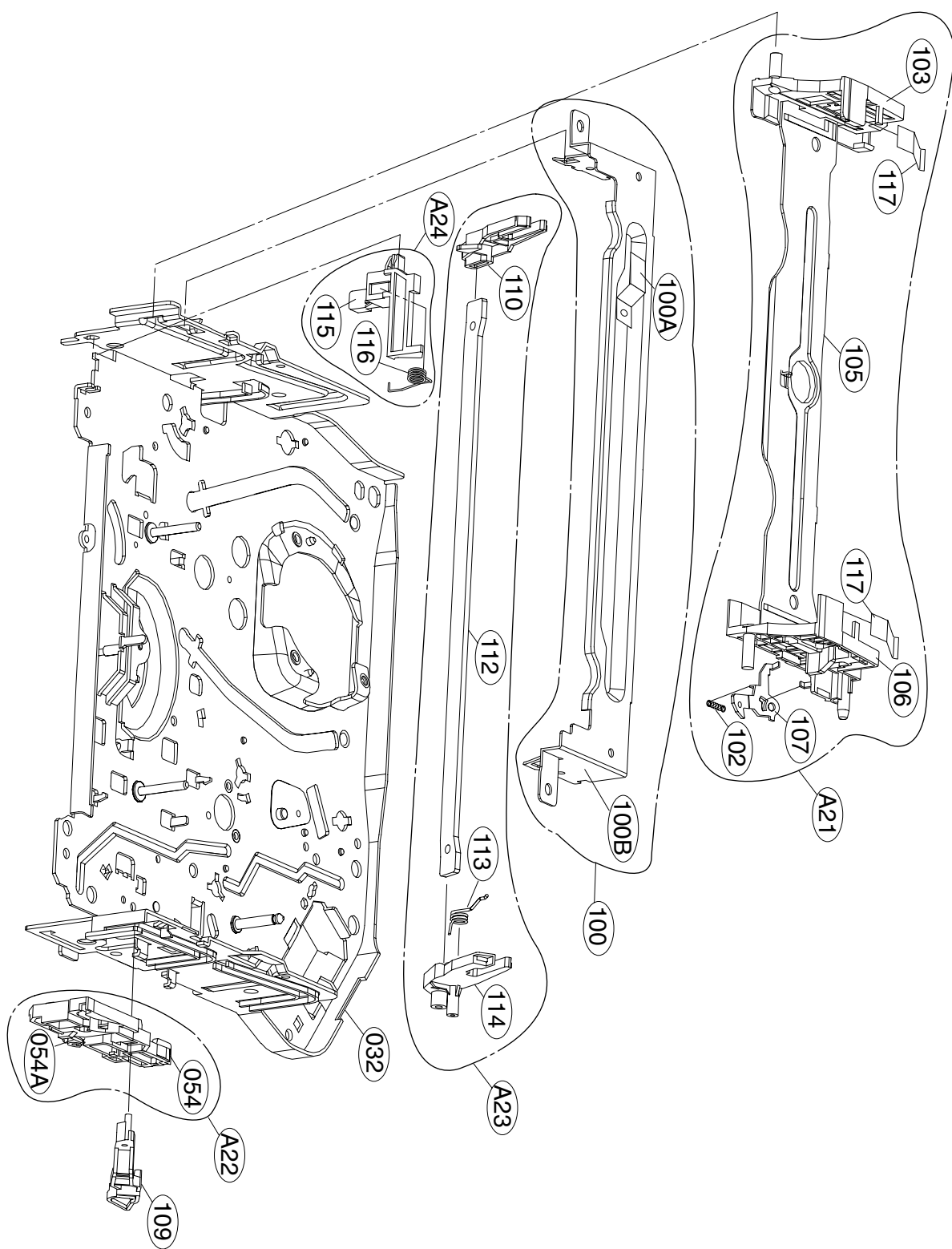
MECHANISM TROUBLESHOOTING GUIDE

C.



EXPLODED VIEWS

1. Front Loading Mechanism Section



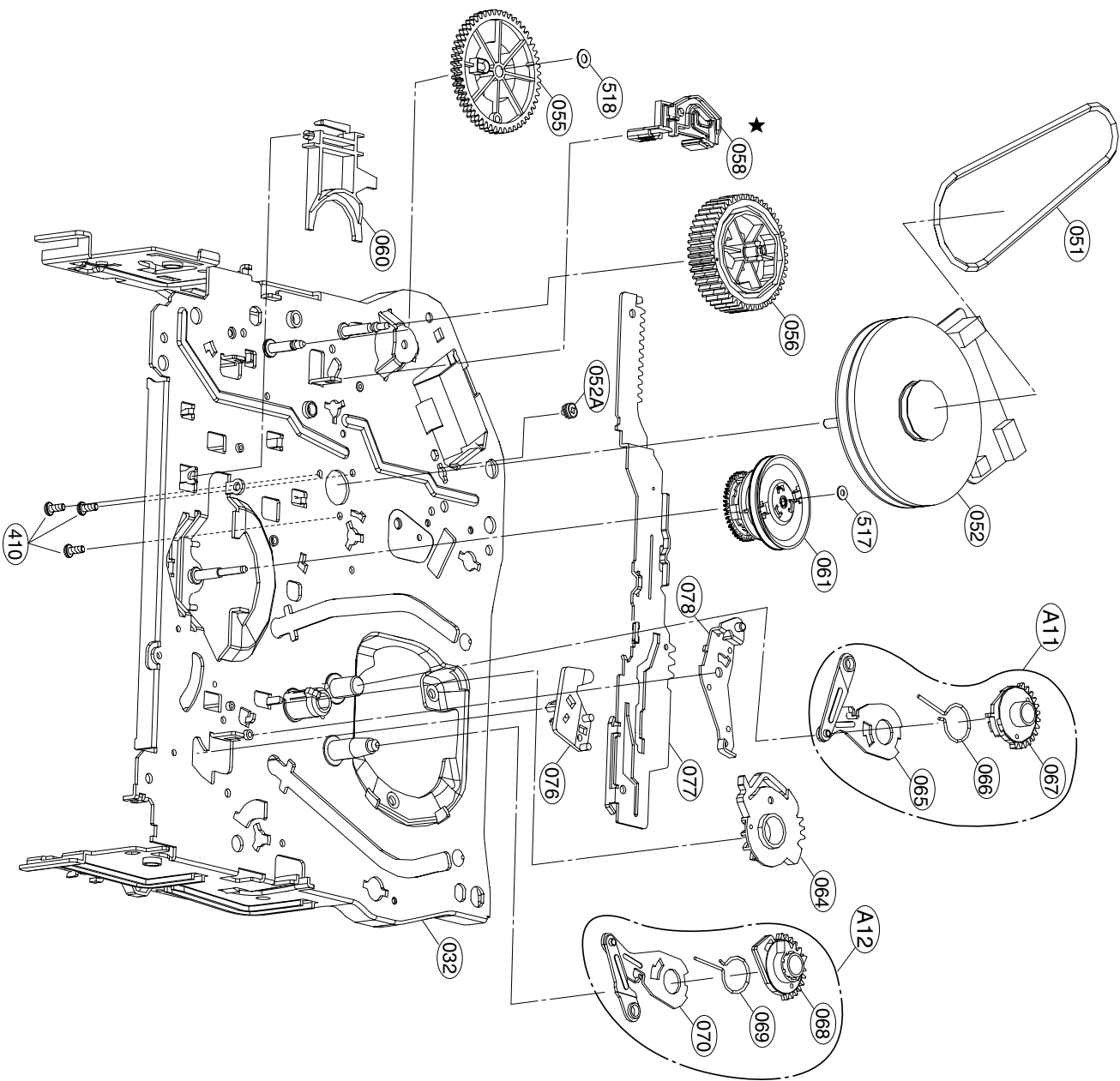
2. Moving Mechanism Section(1)

[illegible]

EXPLODED VIEWS

3. Moving Mechanism Section(2)

★ OPTIONAL PART



MEMO

Handwriting practice lines consisting of 25 horizontal dotted lines.

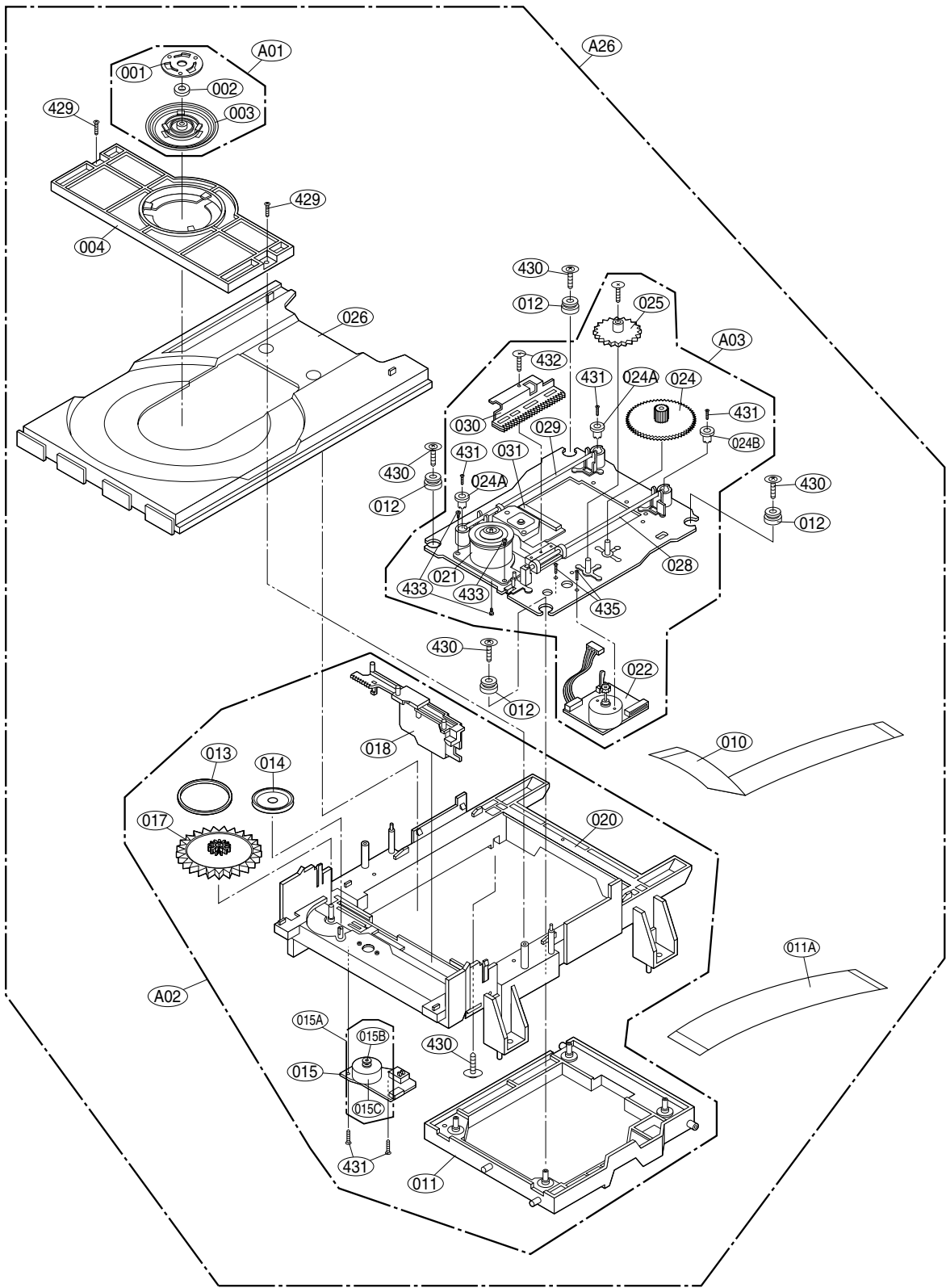
SECTION 5 MECHANISM OF DVD PART
CONTENTS

EXPLODED VIEW

1. Deck Mechanism Exploded View5-1

EXPLODED VIEWS

1. DECK Mechanism Exploded View



Spare Parts Lists

MECHANICAL DVD755VR /02

Various

250	9965 000 18503	CASE
260	9965 000 18504	FRAME
285	9965 000 18506	DOOR ASSEMBLY
300	9965 000 18507	POWER CORD
330	9965 000 18486	
801	9965 000 18508	INSTRUCTION ASSEMBLY
900	9965 000 18509	REMOTE CONTROLLER ASSEMBLY

FRONT PWB DVD755VR /02

Various

283	9965 000 18512	DOOR.CASE
284	4822 492 42785	SPRING DOOR
A43	9965 000 18511	PANEL ASSEMBLY,FRONT NORM AL PA

CABLE ASSY DVD755VR /xx

Various

806	9965 000 18514	1200M/M PAL-PAL DOUBLE SHIELD
810	9965 000 18513	COMBI ACC WITH BOX (FOR I AND
821	9965 000 18515	1200M/M SCART-SCART DOUBLE SHI

DVD MECHANICAL DVD755VR /xx

Various

004	9965 000 18549	HOLDER
010	9965 000 18550	CABLE,FLAT
026	9965 000 18552	TRAY
A01	9965 000 18546	CLAMP ASSEMBLY
A02	9965 000 18547	BASE ASSEMBLY
A03	9965 000 18548	BASE ASSEMBLY
A26	9965 000 18545	DECK ASSEMBLY,VIDEO
011A	9965 000 18551	CABLE,FLAT

SUB PWB DVD755VR /02

A46A	9965 000 18555	465202D7160F30 000000 00003000
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-II-

C201	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C202	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C203	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C206	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C207	4822 124 23056	47μF 20% 16V
C208	4822 124 23056	47μF 20% 16V
C211	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C212	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C213	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C214	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C231	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C232	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C233	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C234	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C239	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C240	3198 017 31530	0603 50V 15nF COL R
C241	4822 124 23056	47μF 20% 16V
C243	4822 126 12223	560pF 50V
C244	4822 126 12223	560pF 50V
C245	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C251	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C252	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C253	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C254	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C255	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C257	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C258	9965 000 18558	1μF 10V Z (F) 1508 R/TP

C259	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C260	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C261	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C262	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C263	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C264	3198 017 31530	0603 50V 15nF COL R
C265	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C266	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C267	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C268	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C269	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C270	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C271	9965 000 18559	390pF 50V J 1508 R/TP
C272	9965 000 18559	390pF 50V J 1508 R/TP
C273	9965 000 18560	0.033μF 50V K (X) 1508 R/TP
C274	9965 000 18561	470pF 50V J 1508 R/TP
C276	9965 000 13794	SMD 10pF 5% 50V 0603
C277	3198 017 31530	0603 50V 15nF COL R
C278	4822 126 11669	27pF
C279	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C280	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C281	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C282	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C283	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C291	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C292	4822 124 23056	47μF 20% 16V
C293	4822 124 23056	47μF 20% 16V
C295	4822 124 11947	10μF 20% 16V
C296	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C297	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C298	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C401	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C402	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C403	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C404	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C405	4822 124 23056	47μF 20% 16V
C406	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C407	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C408	4822 124 40804	22μF 20% 63V
C409	4822 124 40804	22μF 20% 63V
C410	4822 124 40804	22μF 20% 63V
C411	4822 124 40804	22μF 20% 63V
C412	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C413	5322 126 11578	1nF 10% 50V 0603
C414	5322 126 11578	1nF 10% 50V 0603
C415	9965 000 18562	270pF 50V 5% 1608 R/TP
C416	9965 000 18562	270pF 50V 5% 1608 R/TP
C417	9965 000 18562	270pF 50V 5% 1608 R/TP
C418	9965 000 18562	270pF 50V 5% 1608 R/TP
C419	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C420	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C421	9965 000 18563	3900pF 50V K Z5U(E) 1608 R/TP
C422	9965 000 18563	3900pF 50V K Z5U(E) 1608 R/TP
C423	4822 124 40804	22μF 20% 63V
C424	4822 124 40804	22μF 20% 63V
C425	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C426	4822 124 12052	220μF 20% 6,3V
C502	5322 126 11583	10nF 10% 50V 0603
C503	5322 126 11583	10nF 10% 50V 0603
C504	5322 126 11583	10nF 10% 50V 0603
C505	5322 126 11583	10nF 10% 50V 0603
C506	9965 000 11253	CHIP 100P/50V (J) CH 0603
C507	5322 126 11583	10nF 10% 50V 0603
C508	9965 000 18564	2.2μF 16V 80%,-20% (F) 3216
C509	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C510	9965 000 11253	CHIP 100P/50V (J) CH 0603
C511	4822 124 23056	47μF 20% 16V
C513	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C514	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C515	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C516	9965 000 18564	2.2μF 16V 80%,-20% (F) 3216
C517	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C518	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C519	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C520	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C521	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C522	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C523	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C524	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C525	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP

C526	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C527	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C528	4822 124 23056	47μF 20% 16V
C530	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C531	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C532	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C533	4822 126 14507	18pF 10% 50V 0603
C534	2222 867 15339	0603 50V 33P 5%
C535	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C536	5322 126 11578	1nF 10% 50V 0603
C537	5322 126 11578	1nF 10% 50V 0603
C538	5322 126 11578	1nF 10% 50V 0603
C539	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C540	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C541	4822 124 11947	10μF 20% 16V
C542	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C543	4822 124 11947	10μF 20% 16V
C544	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C545	4822 124 11947	10μF 20% 16V
C554	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C555	4822 124 11947	10μF 20% 16V
C556	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C557	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C558	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C559	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C560	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C561	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C563	4822 124 12052	220μF 20% 6,3V
C564	4822 124 12052	220μF 20% 6,3V
C567	4822 126 13883	220pF 5% 50V
C568	4822 126 13883	220pF 5% 50V
C569	4822 126 13883	220pF 5% 50V
C575	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C576	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C577	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C578	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C579	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C580	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C581	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C582	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C583	4822 124 12052	220μF 20% 6,3V
C584	4822 126 11669	27pF
C585	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C586	9965 000 11253	CHIP 100P/50V (J) CH 0603
C587	9965 000 11253	CHIP 100P/50V (J) CH 0603
C589	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C590	4822 124 12052	220μF 20% 6,3V
C591	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C592	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C597	4822 122 33777	47pF 5% 63V
C5A1	4822 124 11947	10μF 20% 16V
C5A2	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C5C1	4822 124 23056	47μF 20% 16V
C5C2	4822 124 23053	1μF 20% 63V
C5C4	4822 124 23053	1μF 20% 63V
C5C5	4822 124 23053	1μF 20% 63V
C5C6	4822 124 23053	1μF 20% 63V
C5C7	4822 124 23053	1μF 20% 63V
C5C8	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C5C9	4822 124 40804	22μF 20% 63V
C5E0	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C601	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C602	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C603	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C604	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C605	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C606	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP



D401	4822 130 80522	DAP202U
D601	9965 000 18565	RL104F TP RECTRON NON 400V 1A
F501	9965 000 18566	LFA20-2A1E473MT MITSUBISHI MAT



L201	9965 000 18574	10μH 5% 4X5 TR5
L202	9965 000 18575	HB-1M2012-102JT CERATECH TP
L203	9965 000 18574	10μH 5% 4X5 TR5
L204	9965 000 18575	HB-1M2012-102JT CERATECH TP
L231	9965 000 18575	HB-1M2012-102JT CERATECH TP
L251	9965 000 18575	HB-1M2012-102JT CERATECH TP

L261	9965 000 18575	HB-1M2012-102JT CERATECH TP
L262	9965 000 18575	HB-1M2012-102JT CERATECH TP
L264	9965 000 18575	HB-1M2012-102JT CERATECH TP
L265	9965 000 18575	HB-1M2012-102JT CERATECH TP
L401	9965 000 18575	HB-1M2012-102JT CERATECH TP
L402	9965 000 18575	HB-1M2012-102JT CERATECH TP
L403	9965 000 18575	HB-1M2012-102JT CERATECH TP
L501	9965 000 18575	HB-1M2012-102JT CERATECH TP
L502	9965 000 18575	HB-1M2012-102JT CERATECH TP
L503	9965 000 18575	HB-1M2012-102JT CERATECH TP
L504	9965 000 18575	HB-1M2012-102JT CERATECH TP
L505	9965 000 18575	HB-1M2012-102JT CERATECH TP
L506	9965 000 18575	HB-1M2012-102JT CERATECH TP
L507	9965 000 18575	HB-1M2012-102JT CERATECH TP
L508	9965 000 18575	HB-1M2012-102JT CERATECH TP
L5C1	9965 000 18575	HB-1M2012-102JT CERATECH TP
L601	9965 000 18575	HB-1M2012-102JT CERATECH TP
L602	9965 000 18575	HB-1M2012-102JT CERATECH TP
L613	9965 000 18575	HB-1M2012-102JT CERATECH TP



Q201	4822 130 10491	KTC3875S-GR-T1(ALG)
Q202	3141 018 51690	TRA SM 2SK3018
Q203	3141 018 51690	TRA SM 2SK3018
Q204	4822 130 61269	2SA1037KQ
Q205	4822 130 61269	2SA1037KQ
Q401	4822 130 61269	2SA1037KQ
Q404	9965 000 11427	KRA103S (SOP)
Q405	9965 000 11427	KRA103S (SOP)
Q501	4822 130 10491	KTC3875S-GR-T1(ALG)



R201	4822 051 30103	10k 5% 0,062W
R202	4822 117 13632	100k 1% 0603 0.62W
R203	4822 051 30103	10k 5% 0,062W
R204	4822 117 13632	100k 1% 0603 0.62W
R205	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R
R206	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R
R207	4822 051 30008	0Ω jumper
R208	4822 051 30008	0Ω jumper
R209	4822 051 30008	0Ω jumper
R210	4822 051 30008	0Ω jumper
R211	4822 117 13613	2Ω2 5% 0603
R212	9965 000 18576	750k Ω 1/16 W 5% 1608 R/ TP
R213	9965 000 18577	390k Ω 1 / 16 W 1608 5.00% D
R214	9965 000 18576	750k Ω 1/16 W 5% 1608 R/ TP
R215	9965 000 18577	390k Ω 1 / 16 W 1608 5.00% D
R216	9965 000 18578	1 Ω 1 / 16 W 1608 5.00% D
R217	4822 117 13613	2Ω2 5% 0603
R218	4822 117 13613	2Ω2 5% 0603
R220	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R
R221	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R
R231	4822 051 30222	2k2 5% 0,062W
R232	4822 051 30222	2k2 5% 0,062W
R233	4822 117 13613	2Ω2 5% 0603
R234	4822 117 13613	2Ω2 5% 0603
R235	4822 051 30103	10k 5% 0,062W
R236	4822 051 30153	15k 5% 0,062W
R237	4822 051 30273	27k 5% 0,062W
R238	4822 051 30103	10k 5% 0,062W
R239	4822 051 30103	10k 5% 0,062W
R240	4822 051 30103	10k 5% 0,062W
R241	4822 051 30103	10k 5% 0,062W

R242	4822 051 30273	27k 5% 0,062W
R243	4822 051 30103	10k 5% 0,062W
R244	4822 051 30153	15k 5% 0,062W
R245	4822 051 30103	10k 5% 0,062W
R246	4822 051 30103	10k 5% 0,062W
R251	4822 051 30333	33k 5% 0,062W
R252	4822 117 13632	100k 1% 0603 0.62W
R253	4822 051 30273	27k 5% 0,062W
R254	4822 051 30008	0Ω jumper
R255	4822 051 30008	0Ω jumper
R256	4822 051 30103	10k 5% 0,062W
R257	4822 051 30103	10k 5% 0,062W
R258	4822 051 30008	0Ω jumper
R259	4822 051 30008	0Ω jumper
R401	4822 051 30102	1k 5% 0,062W
R402	4822 051 30008	0Ω jumper
R403	4822 051 30008	0Ω jumper
R404	4822 051 30008	0Ω jumper
R405	4822 051 30008	0Ω jumper
R407	4822 051 30562	5k6 5% 0,063W 0603 RC21 RST SM
R408	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R
R409	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R
R410	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R
R411	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R
R412	4822 117 12902	8k2 1% 0.063W 0603
R413	4822 117 12903	1k8 1% 0.063W 0603
R414	4822 117 12903	1k8 1% 0.063W 0603
R415	4822 117 12902	8k2 1% 0.063W 0603
R416	4822 117 12903	1k8 1% 0.063W 0603
R417	4822 051 30472	4k7 5% 0,062W
R418	4822 117 12902	8k2 1% 0.063W 0603
R419	4822 117 12902	8k2 1% 0.063W 0603
R420	4822 117 12903	1k8 1% 0.063W 0603
R421	4822 051 30331	330Ω 5% 0,062W
R422	4822 051 30331	330Ω 5% 0,062W
R423	4822 051 30102	1k 5% 0,062W
R424	4822 051 30102	1k 5% 0,062W
R425	4822 051 30102	1k 5% 0,062W
R426	4822 051 30102	1k 5% 0,062W
R427	4822 051 30102	1k 5% 0,062W
R501	4822 117 12902	8k2 1% 0.063W 0603
R502	9965 000 18576	750k Ω 1/16 W 5% 1608 R/ TP
R503	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D
R504	4822 051 30008	0Ω jumper
R505	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D
R506	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D
R507	4822 051 30152	1k5 5% 0,062W
R508	4822 117 13632	100k 1% 0603 0.62W
R509	4822 051 30008	0Ω jumper
R510	4822 051 30008	0Ω jumper
R511	4822 051 30183	18k 5% 0,062W
R512	4822 117 13632	100k 1% 0603 0.62W
R513	4822 051 30008	0Ω jumper
R515	4822 051 30339	33Ω 5% 0,062W
R516	4822 051 30339	33Ω 5% 0,062W
R517	4822 051 30339	33Ω 5% 0,062W
R518	4822 051 30339	33Ω 5% 0,062W
R519	4822 051 30339	33Ω 5% 0,062W
R520	4822 051 30339	33Ω 5% 0,062W
R521	4822 051 30339	33Ω 5% 0,062W
R522	4822 051 30339	33Ω 5% 0,062W
R523	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D
R524	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D
R525	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D
R526	4822 051 30101	100Ω 5% 0,062W
R527	4822 051 30472	4k7 5% 0,062W
R528	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D
R529	4822 051 30008	0Ω jumper
R534	4822 051 30102	1k 5% 0,062W
R535	4822 051 30102	1k 5% 0,062W
R564	4822 051 30183	18k 5% 0,062W
R565	4822 051 30183	18k 5% 0,062W
R566	4822 051 30103	10k 5% 0,062W
R567	4822 051 30103	10k 5% 0,062W
R570	4822 051 30008	0Ω jumper
R573	4822 051 30221	220Ω 5% 0,062W
R574	4822 051 30221	220Ω 5% 0,062W
R577	4822 051 30471	470Ω 5% 0,062W
R578	4822 051 30101	100Ω 5% 0,062W
R579	4822 051 30102	1k 5% 0,062W
R580	4822 051 30102	1k 5% 0,062W
R581	4822 051 30102	1k 5% 0,062W
R584	4822 117 12139	22Ω 5% 0,062W
R585	9965 000 18581	110 Ω 1 / 16 W 1608 5.00% D

R586	4822 051 30759	75Ω 5% 0,062W
R587	9965 000 18581	110 Ω 1 / 16 W 1608 5.00% D
R5A7	4822 051 30103	10k 5% 0,062W
R5A9	4822 051 30102	1k 5% 0,062W
R5C1	4822 051 30151	150Ω 5% 0,062W
R5C3	4822 051 30151	150Ω 5% 0,062W
R5C4	4822 051 30151	150Ω 5% 0,062W
R5C5	4822 051 30151	150Ω 5% 0,062W
R5C6	4822 051 30151	150Ω 5% 0,062W
R5C9	4822 051 30008	0Ω jumper
R5E1	4822 051 30008	0Ω jumper
R601	4822 051 30759	75Ω 5% 0,062W
R602	4822 051 30759	75Ω 5% 0,062W
R603	4822 051 30759	75Ω 5% 0,062W
R604	4822 051 30759	75Ω 5% 0,062W
R605	4822 051 30759	75Ω 5% 0,062W
R606	4822 051 30759	75Ω 5% 0,062W
R607	4822 051 30008	0Ω jumper
R608	4822 051 30008	0Ω jumper
R609	4822 051 30008	0Ω jumper
R610	4822 051 30008	0Ω jumper
R611	4822 051 30008	0Ω jumper
X501	9965 000 18582	HC-49/S BUBANG 27MHz 20PPM 1
IC201	9965 000 18567	MT1336E MEDIATEK INCORPORATION
IC202	9965 000 18568	LA6560-A-TE-L SANYO HSOP-36R R
IC401	9965 000 11006	CS4391 TSSOP20
IC402	9965 000 04714	IC NJM4580M
IC501	9965 000 18569	MT1379DE MEDIATEK INCORPORATIO
IC502	9965 000 18570	M12L16161A-7T-TI ELITE MEMORY
IC503	9965 000 18570	M12L16161A-7T-TI ELITE MEMORY
IC505	9965 000 18571	S524A40X21-SCT0 SOP8 TP EEPROM
IC510	9965 000 18554	MM74HCT244SJ 20P SOIC TP 3-STA
IC5C1	9965 000 18573	MM1623XFBE MITSUMI 28PIN SOP R
ZD501	4822 130 83206	BZX79-B5V6

MAIN PWB DVD755VR /02

Various

323	9965 000 18584	VCR - PRE-AMP (02-PAL)
A46	9965 000 18583	VCR VP600CSK NA3FPP
BC91	9965 000 18585	BEAD CORE BFS3550R2FD8,R T/P
BC92	9965 000 18585	BEAD CORE BFS3550R2FD8,R T/P

-II-

C201	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C202	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C203	4822 124 23053	1μF 20% 63V
C204	4822 124 23053	1μF 20% 63V
C205	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C206	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C207	9965 000 18588	0.47M SRA 50V M FM5 TP(5)
C208	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C209	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C210	9965 000 18588	0.47M SRA 50V M FM5 TP(5)
C211	9965 000 18589	2200pF S 50V 5% PE TP5
C212	9965 000 18589	2200pF S 50V 5% PE TP5
C213	9965 000 18590	2.2μF SRA,SS 50V 20% FM5 TP 5
C214	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C215	4822 124 23056	47μF 20% 16V
C216	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C301	4822 124 11947	10μF 20% 16V
C302	4822 124 40804	22μF 20% 63V
C303	9965 000 18591	1800pF 50V 10% B(5YP) 2012 R/T
C304	4822 124 23056	47μF 20% 16V
C305	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP

C306	9965 000 18592	1200P 50V K B 2.0X1.25 R/TP	C502	4822 124 23056	47µF 20% 16V	C5S3	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP
C307	4822 124 23053	1µF 20% 63V	C503	4822 124 12052	220µF 20% 6,3V	C706	9965 000 18613	33P 50V J C 2.0X1.2 R/TP
C308	9965 000 18593	0.015µF 50V K B 2.0X1.2 R/TP	C504	4822 124 12052	220µF 20% 6,3V	C707	4822 126 13694	68pF 1% 63V
C309	9965 000 18594	220P 50V J 2.0X1.25 R/TP	C505	4822 124 23056	47µF 20% 16V	C708	9965 000 18600	470µF SR,SV 6.3V 20% FM5 TP 5
C310	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C506	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C709	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C311	9965 000 18595	47µF SR,SV 50V M FL TP 5	C508	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C710	4822 124 40769	4,7µF 20% 100V
C312	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C509	9965 000 18601	22P 50V J 2.0X1.2 R/TP	C712	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C313	9965 000 18596	0.022µF S 63V K PP NI TP5	C511	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C713	9965 000 18614	56P 50V J 2.0X1.25 R/TP
C314	4822 124 11947	10µF 20% 16V	C512	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C714	9965 000 18614	56P 50V J 2.0X1.25 R/TP
C315	9965 000 18590	2.2µF SRA,SS 50V 20% FM5 TP 5	C513	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C715	9965 000 18615	5P 50V C COG 2.0X1.2 R/TP
C316	4822 124 11947	10µF 20% 16V	C514	9965 000 18603	12pF 50V 5% 2012 R/TP	C716	2238 861 18109	50V 10P PM1 R
C317	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C515	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C717	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C318	4822 124 23053	1µF 20% 63V	C516	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C718	9965 000 18616	47M SRA 6.3V M FM5 TP(5)
C319	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C518	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C719	9965 000 18616	47M SRA 6.3V M FM5 TP(5)
C320	4822 124 23053	1µF 20% 63V	C519	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C720	9965 000 18617	1500pF 50V 10% B(5YP) 2012 R/T
C321	4822 126 13694	68pF 1% 63V	C520	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C721	9965 000 18618	3900P 50V K 2.0X1.2 R/TP
C322	4822 124 11947	10µF 20% 16V	C521	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C722	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C323	4822 124 11947	10µF 20% 16V	C522	9965 000 18590	2.2µF SRA,SS 50V 20% FM5 TP 5	C723	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C324	4822 124 40769	4,7µF 20% 100V	C523	9965 000 18590	2.2µF SRA,SS 50V 20% FM5 TP 5	C726	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C325	4822 124 11947	10µF 20% 16V	C524	4822 124 23056	47µF 20% 16V	C727	9965 000 18616	47M SRA 6.3V M FM5 TP(5)
C326	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C525	9965 000 18606	1µF 16V Z (F) 2012 R/TP	C728	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C327	4822 124 23053	1µF 20% 63V	C526	9965 000 18607	47µF SRA,SS 35V M FM5 TP 5	C729	9965 000 18619	3.3µF SRA,SS 50V 20% FM5 TP 5
C328	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C527	9965 000 18594	220P 50V J 2.0X1.25 R/TP	C730	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP
C329	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C533	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C731	9965 000 18620	9pF 50V 0.5 pF 2012 R/TP
C330	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C534	4822 124 40769	4,7µF 20% 100V	C732	4822 124 11947	10µF 20% 16V
C331	4822 124 40804	22µF 20% 63V	C535	9965 000 18606	1µF 16V Z (F) 2012 R/TP	C751	9965 000 18616	47M SRA 6.3V M FM5 TP(5)
C333	4822 124 23056	47µF 20% 16V	C543	9965 000 18608	2200P 50V K B 2.0X1.25 R/TP	C752	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C334	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C544	9965 000 18609	0.047µF 50V Z (F) 2012 R/TP	C755	4822 124 11947	10µF 20% 16V
C335	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C545	9965 000 18610	0.033µF 25V K B 2.0X1.25 R/TP	C7S1	9965 000 18621	33M SRA 16V M FM5 TP(5)
C336	4822 124 23056	47µF 20% 16V	C546	9965 000 18607	47µF SRA,SS 35V M FM5 TP 5	C7S2	4822 124 11947	10µF 20% 16V
C337	4822 124 23053	1µF 20% 63V	C547	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C802	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C338	4822 126 13751	47nF 10% 63V	C551	9965 000 18610	0.033µF 25V K B 2.0X1.25 R/TP	C803	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C339	4822 124 23053	1µF 20% 63V	C552	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C804	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C340	4822 126 13751	47nF 10% 63V	C556	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C805	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C341	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C561	4822 124 12052	220µF 20% 6,3V	C806	4822 124 11947	10µF 20% 16V
C342	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C564	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C807	9965 000 18588	0.47M SRA 50V M FM5 TP(5)
C343	4822 126 13751	47nF 10% 63V	C567	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C808	4822 124 23053	1µF 20% 63V
C345	9965 000 18598	0.056µF 50V 10% B(5YP) 2012 R/TP	C570	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C809	4822 124 23053	1µF 20% 63V
C346	4822 124 23056	47µF 20% 16V	C571	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C810	9965 000 18606	1µF 16V Z (F) 2012 R/TP
C347	4822 124 23053	1µF 20% 63V	C575	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C811	9965 000 18606	1µF 16V Z (F) 2012 R/TP
C348	4822 124 23053	1µF 20% 63V	C576	9965 000 18611	27P 50V J COG 2.0X1.2 R/TP	C812	4822 124 11947	10µF 20% 16V
C349	4822 124 23056	47µF 20% 16V	C577	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C813	9965 000 18622	6800pF 50V 10% B(5YP) 2012 R/T
C350	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C578	9965 000 18608	2200P 50V K B 2.0X1.25 R/TP	C814	4822 124 23056	47µF 20% 16V
C351	9965 000 18594	220P 50V J 2.0X1.25 R/TP	C581	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C815	4822 124 11947	10µF 20% 16V
C353	4822 124 23053	1µF 20% 63V	C582	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C816	4822 124 11947	10µF 20% 16V
C355	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C583	9965 000 18606	1µF 16V Z (F) 2012 R/TP	C817	4822 124 11947	10µF 20% 16V
C356	4822 124 23053	1µF 20% 63V	C589	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C818	4822 124 23056	47µF 20% 16V
C357	4822 124 23053	1µF 20% 63V	C596	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C819	9965 000 18622	6800pF 50V 10% B(5YP) 2012 R/T
C358	4822 126 13694	68pF 1% 63V	C5A3	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C820	4822 124 11947	10µF 20% 16V
C359	4822 124 23053	1µF 20% 63V	C5A4	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C821	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C361	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C5A5	4822 124 23053	1µF 20% 63V	C822	4822 124 23056	47µF 20% 16V
C362	4822 124 23056	47µF 20% 16V	C5K1	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C823	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C363	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C5L1	9965 000 18606	1µF 16V Z (F) 2012 R/TP	C824	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C366	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C5L6	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C825	4822 124 23056	47µF 20% 16V
C367	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C5P1	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C826	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C368	9965 000 18599	8200P 50V K B 2.0X1.2 R/TP	C5P2	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C828	4822 124 23053	1µF 20% 63V
C369	4822 126 13221	100pF 2% 63V	C5S1	9965 000 18612	43pF 50V J 2012 R/TP	C829	4822 124 23053	1µF 20% 63V
C370	4822 126 13695	82pF 1% 63V				C834	9965 000 18623	470µF SRA,SS 16V 20% FM5 TP 5
C371	4822 126 13695	82pF 1% 63V				C855	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C372	4822 126 13695	82pF 1% 63V				C856	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C374	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)				C857	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C375	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)				C859	4822 124 40804	22µF 20% 63V
C376	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)				C860	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C377	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)				C861	4822 124 11947	10µF 20% 16V
C500	9965 000 18600	470µF SR,SV 6.3V 20% FM5 TP 5				C863	4822 124 23056	47µF 20% 16V
C501	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)						

C864	4822 124 23053	1μF 20% 63V
C869	4822 124 11947	10μF 20% 16V
C870	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C871	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C884	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C885	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C886	9965 000 18623	470μF SRA,SS 16V 20% FM5 TP 5
C887	4822 124 11947	10μF 20% 16V
C888	4822 124 11947	10μF 20% 16V
C889	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C890	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C891	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C892	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C908	9965 000 18602	1000P 50V K B 2.0X1.25 R/ TP
C910	9965 000 18602	1000P 50V K B 2.0X1.25 R/ TP
C912	9965 000 18624	1000P 50V K B TA26
C915	9965 000 18602	1000P 50V K B 2.0X1.25 R/ TP
C916	9965 000 18602	1000P 50V K B 2.0X1.25 R/ TP
C921	9965 000 18602	1000P 50V K B 2.0X1.25 R/ TP
C931	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
C932	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
C933	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
C938	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)



D301	4822 130 32778	1SS133
D502	4822 130 32778	1SS133
D509	4822 130 32778	1SS133
D801	4822 130 32778	1SS133
D802	4822 130 32778	1SS133
D902	4822 130 32778	1SS133
F8A1	9965 000 18627	CFI06B1H101MF SAMHWA TP 2-5K



L301	9965 000 18640	10μH 5% TP 3X5 TR5
L302	9965 000 18641	100M K 6X6 L5 TP
L303	9965 000 18640	10μH 5% TP 3X5 TR5
L304	9965 000 18640	10μH 5% TP 3X5 TR5
L305	9965 000 18641	100M K 6X6 L5 TP
L307	9965 000 18640	10μH 5% TP 3X5 TR5
L501	9965 000 18642	12M K 2.3X3.4 L5 TP
L503	9965 000 18643	100μH 5% TP 3X5 TR5
L504	9965 000 18640	10μH 5% TP 3X5 TR5
L505	9965 000 18641	100M K 6X6 L5 TP
L506	9965 000 18644	EL0405RA SKI150G-3 K-15μH
L5S1	9965 000 18645	33M K 2.3X3.4 L5 TP
L701	9965 000 18641	100M K 6X6 L5 TP
L702	9965 000 18646	10M K 6X6 L5 TP
L704	9965 000 18646	10M K 6X6 L5 TP
L705	9965 000 18646	10M K 6X6 L5 TP
L706	9965 000 18647	8.2M K 2.3X3.4 L5 TP
L801	9965 000 18641	100M K 6X6 L5 TP
L803	9965 000 18641	100M K 6X6 L5 TP
L901	9965 000 18648	100M K 2.3X3.4 L5 TP
L902	9965 000 18648	100M K 2.3X3.4 L5 TP
L903	9965 000 18648	100M K 2.3X3.4 L5 TP
L904	9965 000 18648	100M K 2.3X3.4 L5 TP
L905	9965 000 18648	100M K 2.3X3.4 L5 TP
L906	9965 000 18648	100M K 2.3X3.4 L5 TP
L907	9965 000 18648	100M K 2.3X3.4 L5 TP
L908	9965 000 18648	100M K 2.3X3.4 L5 TP
L909	9965 000 18648	100M K 2.3X3.4 L5 TP
L910	9965 000 18648	100M K 2.3X3.4 L5 TP



Q173	4822 130 10491	KTC3875S-GR-T1(ALG)
Q301	4822 130 10491	KTC3875S-GR-T1(ALG)
Q302	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK

Q303	4822 130 10491	KTC3875S-GR-T1(ALG)
Q304	4822 130 10491	KTC3875S-GR-T1(ALG)
Q305	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q306	9965 000 18651	2SC5344Y TP
Q308	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q309	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q501	4822 130 10491	KTC3875S-GR-T1(ALG)
Q502	4822 130 10491	KTC3875S-GR-T1(ALG)
Q503	4822 130 63766	KTA1273Y(966Y)
Q504	4822 130 10491	KTC3875S-GR-T1(ALG)
Q514	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q515	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q5S1	4822 130 10491	KTC3875S-GR-T1(ALG)
Q705	4822 130 63766	KTA1273Y(966Y)
Q706	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q7S1	4822 130 10491	KTC3875S-GR-T1(ALG)
Q801	4822 130 10491	KTC3875S-GR-T1(ALG)
Q802	4822 130 10491	KTC3875S-GR-T1(ALG)
Q804	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q901	4822 130 10491	KTC3875S-GR-T1(ALG)
Q902	4822 130 10491	KTC3875S-GR-T1(ALG)
Q903	4822 130 10491	KTC3875S-GR-T1(ALG)



R173	4822 051 20472	4k7 5% 0,1W
R201	4822 051 20102	1k 5% 0,1W
R202	4822 051 20124	120k 5% 0,1W
R203	4822 051 20225	2M2 5% 0,1W
R204	4822 117 10834	47k 1% 0,1W
R301	4822 117 11148	56k 1% 0,1W
R302	4822 117 10833	10k 1% 0,1W
R303	4822 117 10965	18k 1% 0,1W
R304	4822 117 10833	10k 1% 0,1W
R305	4822 117 10833	10k 1% 0,1W
R306	4822 051 20223	22k 5% 0,1W
R307	4822 117 11449	2k2 5% 0,1W 0805
R308	4822 051 20472	4k7 5% 0,1W
R309	4822 051 20102	1k 5% 0,1W
R310	4822 051 20472	4k7 5% 0,1W
R311	4822 051 20102	1k 5% 0,1W
R312	4822 051 20683	68k 5% 0,1W
R313	4822 051 20228	2Ω2 5% 0,1W
R314	4822 051 20102	1k 5% 0,1W
R315	4822 051 20479	47Ω 5% 0,1W
R316	4822 117 11373	100Ω 1% RC12H 0805
R317	4822 051 20562	5k6 5% 0,1W 0805
R318	4822 051 20392	3k9 5% 0,1W
R319	4822 051 20561	560Ω 5% 0,1W
R320	4822 117 10353	150Ω 1% 0,1W
R321	4822 051 20122	1k2 5% 0,1W
R322	4822 051 20102	1k 5% 0,1W
R324	4822 051 20334	330k 5% 0,1W
R325	4822 051 20471	470Ω 5% 0,1W
R326	4822 117 11383	12k 1% 0,1W
R327	4822 051 20562	5k6 5% 0,1W 0805
R328	4822 117 11504	270Ω 1% 0,1W
R329	4822 117 11383	12k 1% 0,1W
R330	4822 117 10833	10k 1% 0,1W
R331	4822 051 20472	4k7 5% 0,1W
R332	4822 117 10834	47k 1% 0,1W
R333	4822 051 20392	3k9 5% 0,1W
R334	4822 117 12955	2k7 1% 0,1W 0805
R335	4822 117 11507	6k8 1% 0,1W
R336	4822 117 10837	100k 1% 0,1W
R337	4822 117 11449	2k2 5% 0,1W 0805
R338	4822 117 11504	270Ω 1% 0,1W
R339	4822 117 11504	270Ω 1% 0,1W
R340	4822 117 10965	18k 1% 0,1W
R342	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R343	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R344	4822 051 20471	470Ω 5% 0,1W
R345	4822 051 20471	470Ω 5% 0,1W
R346	4822 117 11373	100Ω 1% RC12H 0805
R347	4822 117 11373	100Ω 1% RC12H 0805
R348	4822 051 20155	1M5 5% 0,1W
R349	4822 051 20182	1k8 5% 0,1W
R350	4822 117 10833	10k 1% 0,1W
R351	4822 051 20824	820k 5% 0,1W
R352	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R353	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R3A2	4822 051 20008	0Ω jumper . (0805)

R501	4822 117 11373	100Ω 1% RC12H 0805
R502	4822 117 11373	100Ω 1% RC12H 0805
R503	4822 051 20472	4k7 5% 0,1W
R504	4822 051 20102	1k 5% 0,1W
R505	4822 051 20102	1k 5% 0,1W
R506	4822 051 20008	0Ω jumper . (0805)
R508	4822 051 20332	3k3 5% 0,1W
R509	4822 051 20182	1k8 5% 0,1W
R510	4822 117 11449	2k2 5% 0,1W 0805
R511	4822 051 20102	1k 5% 0,1W
R512	4822 051 20102	1k 5% 0,1W
R513	4822 051 20102	1k 5% 0,1W
R514	4822 051 20124	120k 5% 0,1W
R515	4822 117 11504	270Ω 1% 0,1W
R516	4822 051 20474	470k 5% 0,1W
R517	4822 051 20471	470Ω 5% 0,1W
R518	4822 051 20102	1k 5% 0,1W
R520	4822 051 20392	3k9 5% 0,1W
R521	4822 051 20472	4k7 5% 0,1W
R522	4822 051 20102	1k 5% 0,1W
R523	4822 117 10833	10k 1% 0,1W
R524	4822 051 20229	22Ω 5% 0,1W
R525	4822 051 20562	5k6 5% 0,1W 0805
R526	4822 051 20562	5k6 5% 0,1W 0805
R527	4822 051 20102	1k 5% 0,1W
R528	4822 051 20472	4k7 5% 0,1W
R529	4822 117 10833	10k 1% 0,1W
R530	4822 051 20472	4k7 5% 0,1W
R531	4822 117 10833	10k 1% 0,1W
R535	4822 051 20474	470k 5% 0,1W
R542	4822 117 11449	2k2 5% 0,1W 0805
R543	4822 117 11373	100Ω 1% RC12H 0805
R544	4822 051 20472	4k7 5% 0,1W
R545	4822 051 20008	0Ω jumper . (0805)
R546	4822 051 20562	5k6 5% 0,1W 0805
R547	4822 117 11383	12k 1% 0,1W
R548	4822 117 10837	100k 1% 0,1W
R550	4822 117 11503	220Ω 1% 0,1W
R553	4822 117 11503	220Ω 1% 0,1W
R554	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R555	4822 117 11503	220Ω 1% 0,1W
R556	4822 051 20223	22k 5% 0,1W
R557	4822 051 20273	27k 5% 0,1W
R558	4822 051 20223	22k 5% 0,1W
R559	4822 051 20472	4k7 5% 0,1W
R560	4822 051 20472	4k7 5% 0,1W
R561	4822 051 20561	560Ω 5% 0,1W
R562	4822 051 20561	560Ω 5% 0,1W
R563	4822 051 20562	5k6 5% 0,1W 0805
R564	4822 051 20273	27k 5% 0,1W
R566	4822 051 20472	4k7 5% 0,1W
R567	4822 117 10833	10k 1% 0,1W
R568	4822 051 20683	68k 5% 0,1W
R569	4822 051 20105	1M 5% 0,1W
R570	4822 051 20472	4k7 5% 0,1W
R575	4822 051 20472	4k7 5% 0,1W
R576	4822 051 20472	4k7 5% 0,1W
R577	4822 051 20472	4k7 5% 0,1W
R578	4822 051 20472	4k7 5% 0,1W
R579	4822 117 11148	56k 1% 0,1W
R582	4822 117 11373	100Ω 1% RC12H 0805
R583	4822 117 10833	10k 1% 0,1W
R589	4822 051 20105	1M 5% 0,1W
R591	4822 117 10837	100k 1% 0,1W
RA5A	4822 117 10833	10k 1% 0,1W
RA5A3	4822 117 10833	10k 1% 0,1W
RA5A5	4822 051 20474	470k 5% 0,1W
RB5B3	4822 051 20102	1k 5% 0,1W
RB5B4	4822 051 20102	1k 5% 0,1W
RB5B5	4822 117 11373	100Ω 1% RC12H 0805
RC5C1	4822 051 20102	1k 5% 0,1W
RC5C5	4822 051 20102	1k 5% 0,1W
RC5C6	4822 051 20102	1k 5% 0,1W
RC5C7	4822 051 20102	1k 5% 0,1W
RC5C9	4822 117 10833	10k 1% 0,1W
RSK6	4822 117 11373	100Ω 1% RC12H 0805
RSK7	4822 117 11373	100Ω 1% RC12H 0805
RSK8	4822 117 11373	100Ω 1% RC12H 0805
RL5L1	4822 051 20008	0Ω jumper . (0805)
RL5P2	4822 117 10833	10k 1% 0,1W
RL5P3	4822 117 10833	10k 1% 0,1W
RL5R8	4822 051 20102	1k 5% 0,1W
RL5S1	4822 051 20562	5k6 5% 0,1W 0805
RL5S2	9965 000 18652	330 Ω 1/6 W 5% TA26
R705	4822 117 11503	220Ω 1% 0,1W
R706	4822 117 11503	220Ω 1% 0,1W
R707	4822 051 20102	1k 5% 0,1W
R710	4822 051 20332	3k3 5% 0,1W
R711	4822 051 20332	3k3 5% 0,1W
R712	4822 051 20472	4k7 5% 0,1W
R713	4822 051 20562	5k6 5% 0,1W 0805
R714	4822 051 20008	0Ω jumper . (0805)
R715	4822 117 11449	2k2 5% 0,1W 0805

R716	4822 051 20102	1k 5% 0,1W
R717	4822 117 11373	100Ω 1% RC12H 0805
R718	4822 117 11373	100Ω 1% RC12H 0805
R719	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R7S1	4822 051 20223	22k 5% 0,1W
R801	4822 051 20335	3M3 5% 0,1W
R802	4822 051 20333	33k 5% 0,1W
R803	4822 117 12955	2k7 1% 0,1W 0805
R804	4822 051 20393	39k 5% 0,1W
R805	4822 117 12955	2k7 1% 0,1W 0805
R806	4822 051 20333	33k 5% 0,1W
R807	4822 051 20471	470Ω 5% 0,1W
R808	4822 117 10833	10k 1% 0,1W
R809	4822 117 10965	18k 1% 0,1W
R810	4822 117 11373	100Ω 1% RC12H 0805
R811	4822 117 11373	100Ω 1% RC12H 0805
R812	4822 051 20102	1k 5% 0,1W
R821	4822 117 11449	2k2 5% 0,1W 0805
R822	4822 117 10837	100k 1% 0.1W
R823	4822 117 11449	2k2 5% 0,1W 0805
R824	4822 117 10837	100k 1% 0.1W
R825	4822 051 20561	560Ω 5% 0,1W
R826	4822 051 20561	560Ω 5% 0,1W
R835	4822 117 11927	75Ω 1% 0,1W
R841	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R842	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R850	4822 117 11373	100Ω 1% RC12H 0805
R851	4822 117 11373	100Ω 1% RC12H 0805
R861	4822 051 20472	4k7 5% 0,1W
R862	4822 051 20472	4k7 5% 0,1W
R863	4822 051 20472	4k7 5% 0,1W
R864	4822 051 20472	4k7 5% 0,1W
R874	4822 117 11927	75Ω 1% 0,1W
R875	4822 051 20472	4k7 5% 0,1W
R876	4822 051 20472	4k7 5% 0,1W
R890	4822 117 11927	75Ω 1% 0,1W
R901	4822 117 11383	12k 1% 0,1W
R902	4822 117 10833	10k 1% 0,1W
R903	4822 117 11927	75Ω 1% 0,1W
R904	4822 051 20561	560Ω 5% 0,1W
R905	4822 051 20561	560Ω 5% 0,1W
R906	4822 051 20561	560Ω 5% 0,1W
R907	4822 051 20561	560Ω 5% 0,1W
R908	4822 051 20008	0Ω jumper . (0805)
R909	4822 051 20008	0Ω jumper . (0805)
R910	4822 051 20008	0Ω jumper . (0805)
R911	4822 051 20102	1k 5% 0,1W
R913	4822 117 11927	75Ω 1% 0,1W
R914	4822 117 11927	75Ω 1% 0,1W
R919	4822 051 20472	4k7 5% 0,1W
R920	4822 117 10361	680Ω 1% 0,1W
R927	4822 051 20102	1k 5% 0,1W
R928	4822 051 20008	0Ω jumper . (0805)
R929	4822 051 20008	0Ω jumper . (0805)
R930	4822 051 20102	1k 5% 0,1W
R931	4822 117 11503	220Ω 1% 0.1W
R932	4822 117 11503	220Ω 1% 0.1W
R933	4822 117 10837	100k 1% 0.1W
R934	4822 117 10837	100k 1% 0.1W
W714	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W901	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W902	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W903	9965 000 18656	1.0M K 2.3X3.4 L5 TP
X301	9965 000 18657	HC49U BUBANG 4- 433709MHz 15P HC-49S BUBANG 10MHz +/- 30 PPM
X501	9965 000 18658	
X502	9965 000 18659	C-001R SEIKO EPSON 32.768 KHZ
X751	9965 000 18660	49U BUBANG 18432000HZ 30PPM 16



CS501	9965 000 18625	MPU11810MLB0 MIC DC 5V 1MA D-3
ES501	9965 000 18626	END (DI)
ES502	9965 000 18626	END (DI)
FL301	9965 000 18628	BIAC OSC,1CHIP 5V(KS- 75M) KWAN
IC201	9965 000 18629	LA70100M SANYO 30 SOP ST SECAM
IC301	9965 000 18630	LA71750EM SANYO 100PIN QFP TRA
IC501	9965 000 18631	HD6432197SA26F HITACHI 112PIN
IC503	9965 000 18632	CAT24W16P 8P DIP ST 16K SERIAL
IC504	9965 000 18633	KIA7031P 3P 3.1V RESET(TAPING)

IC505	9965 000 18634	KIA7042P
IC751	9965 000 14760	AUD UP MSP3417G-QG-B8- V3
IC801	9352 631 46557	IC SM TDA9605H/N2
IC802	9965 000 18635	MM1443XJ SSOP-34 TP CANAL S/W
LD501	9965 000 18649	LED(DI-CKD)LOCAL
MS501	9965 000 18650	NON 5V 1MA VERTICAL -G
RS501	9965 000 18653	SG-260 KODENSHI D33 REEL SENSO
RS502	9965 000 18653	SG-260 KODENSHI D33 REEL SENSO
SC901	9965 000 18654	DSAM-0121 DOOWON 2F- 21P(BL-BK)



TU701	9965 000 18655	TADC-S401D(SECAM,LGIT) LG INOT
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PSU PWB DVD755VR /xx

Various

A48	9965 000 18661	2003 POWER X360,FLD,MTK
BD01	9965 000 18585	BEAD CORE BFS3550R2FD8,R T/P



C101	9965 000 18666	435D SUNIL ELECTRONICS 0.1μF /2
C102	9965 000 18666	435D SUNIL ELECTRONICS 0.1μF /2
C103	9965 000 18667	100mF /400V SHL SMPS S/ Y
C104	9965 000 18668	0.022μF S 50V J PE TP
C105	9965 000 18669	0.01μF D 630V K PE NI TP
C106	9965 000 18670	HIGH-VOL 100P/1KV SMPS SAMHWA
C109	9965 000 18671	10M SMS 50V M FM5 TP(5)
C110	9965 000 18672	1nF 400V M E(Z5U) R
C111	9965 000 18673	2200 pF 400V M E R (NK,AD,SD)
C112	9965 000 18674	0.022μF 50V Z F TA26 S
C117	9965 000 18675	330μF KMG 50V M FM5 BULK
C121	4822 124 40196	220μF 20% 16V
C123	9965 000 18676	470μF KME TYPE 25V M FM5 BULK
C126	9965 000 18677	220μF SMS,SG 25V 20% FM5 TP 5
C127	4822 124 40201	1000μF 20% 16V
C128	4822 124 40849	330μF 20% 16V
C129	4822 124 40723	2200μF 20% 16V
C130	4822 124 41751	47μF 20% 50V
C131	4822 124 40184	1000μF 20% 10V
C132	4822 124 41751	47μF 20% 50V
C133	9965 000 18678	0.1μF S 50V J PE TP
C135	9965 000 18679	470P 50V K B TA26
C151	4822 124 40769	4,7μF 20% 100V
C152	4822 124 40769	4,7μF 20% 100V
C153	4822 124 11947	10μF 20% 16V
C154	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C155	4822 124 11947	10μF 20% 16V
C156	4822 124 40769	4,7μF 20% 100V
C161	9965 000 18680	47M SRE 16V M FM5 TP(5)
C163	9965 000 18681	HIGH-VOL 220pF /1KV CERAMIC



D101	9965 000 18682	ERA22-10 KFLB,TP ,R T/ P,FUJI
D102	9965 000 18683	EU01W(R-FORM) TP SANKEN
D103	4822 130 32778	1SS133
D106	9965 000 18683	EU01W(R-FORM) TP SANKEN
D107	9965 000 18565	RL104F TP RECTRON NON 400V 1A

D108	9965 000 18683	EU01W(R-FORM) TP SANKEN
D110	9965 000 18684	HER302 BK RECTRON DO201AD 100V
D111	9965 000 18685	1N5822 BK RECTRON DO201AD 40V
D113	9965 000 18565	RL104F TP RECTRON NON 400V 1A
D114	9965 000 18686	RL104 R. TP GULF SEMICONDUCTOR
D115	9965 000 18686	RL104 R. TP GULF SEMICONDUCTOR
D117	9965 000 18686	RL104 R. TP GULF SEMICONDUCTOR
D118	9965 000 18687	B10A45V1 BK KEC TO220 45V 10A
D121	4822 130 32778	1SS133
F101	4822 070 31602	21801.6(1.6A)
F102	4822 209 63611	ICP-N20X



L102	9965 000 19211	LFSQ2215V4-04220B SAMWAH TECOM
L122	9965 000 19212	CHOCK(22mH) 5MM TOKO TP
L123	9965 000 19212	CHOCK(22mH) 5MM TOKO TP
L125	9965 000 19213	CHOCK ,20μH KWANGSUNG LEAD CU



Q150	9965 000 07007	KSB1151-Y BK
Q153	9965 000 19214	SRA2203 TP AUK TO92 22K,22K
Q154	9965 000 19224	2SC5343-L TP AUK TO92
Q155	4822 130 63857	KTD1414
Q156	4822 130 41306	2SC1815GR
Q161	9965 000 19225	KTA1268-BL TP KEC
Q162	9965 000 19224	2SC5343-L TP AUK TO92



R100	9965 000 19226	1.5M Ω 1/2 W 5.00% MF10
R101	9965 000 19227	2.7/2W CEMENT SMPS V
R104	9965 000 19228	56k Ω 2 W 5.00% TR
R105	4822 116 52195	47Ω 5% 0,5W
R106	4822 116 52252	180k 5% 0,5W
R107	4822 116 52252	180k 5% 0,5W
R110	4822 116 52283	4k7 5% 0,5W
R111	4822 116 52234	100k 5% 0,5W
R112	9965 000 19229	220 Ω 1/6 W 5% TA26
R113	4822 116 52276	3k9 5% 0,5W
R114	9965 000 19230	1k Ω 1/6 W 5% TA26
R115	4822 116 52269	3k3 5% 0,5W
R116	4822 116 52263	2k7 5% 0,5W
R117	9965 000 19231	270 Ω 1/6 W 5% TA26
R118	4822 116 52234	100k 5% 0,5W
R119	4822 116 52234	100k 5% 0,5W
R124	9965 000 19232	0.35 Ω 2 W 5.00% TR
R125	4822 116 52283	4k7 5% 0,5W
R126	4822 116 52228	680Ω 5% 0,5W
R130	4822 116 52234	100k 5% 0,5W
R131	4822 116 52257	22k 5% 0,5W
R151	4822 116 52289	5k6 5% 0,5W
R152	4822 116 52289	5k6 5% 0,5W
R153	4822 116 52283	4k7 5% 0,5W
R154	9965 000 19230	1k Ω 1/6 W 5% TA26
R155	4822 116 52251	18k 5% 0,5W
R156	9965 000 19233	10k Ω 1/6 W 5% TA26
R157	9965 000 19230	1k Ω 1/6 W 5% TA26
R158	9965 000 18652	330 Ω 1/6 W 5% TA26
R159	9965 000 18652	330 Ω 1/6 W 5% TA26
R164	4822 116 52283	4k7 5% 0,5W
R167	4822 116 52186	22Ω 5% 0,5W
R168	4822 116 52186	22Ω 5% 0,5W
R170	9965 000 19233	10k Ω 1/6 W 5% TA26
R171	4822 116 52283	4k7 5% 0,5W
R172	4822 116 52283	4k7 5% 0,5W



T101	9965 000 19234	EER3534, 580UH SAMWHA/ FEELUX C
V101	9965 000 19235	SVC681D-10A SAMHWA 4.O CUT
BD101	9965 000 18662	S1WBA60(1A 600V) SHIDENKON
IC101	9965 000 18688	STR-G6351L SANKEN 5PIN TO220 S

IC102	9965 000 18689	LTV-817B,PHOTO COUPLER(LITEON)
IC103	4822 209 12767	KIA431
IC151	9965 000 19209	KIA78R08PI CU KEC 4P TO-220IS
IC152	9965 000 19210	KIA278R33PI-CU KEC 4PIN TO-220
ZD101	9965 000 19243	UZ-3.3BSB 26MM TP PYUNG CHANG
ZD103	4822 130 82665	MTZ13A
ZD104	9965 000 19244	UZ-30BSC 26MM PYUNG CHANG TP D

TIMER PWB DVD755VR /xx

Various

A49	9965 000 19245	VCR PHILIPS COMBI
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—II—

C601	4822 124 11947	10μF 20% 16V
C602	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
C603	9965 000 18674	0.022μF 50V Z F TA26 S
C611	9965 000 18624	1000P 50V K B TA26
C612	9965 000 18624	1000P 50V K B TA26



L601	9965 000 19251	820μH 5% 4X5 TR5
L602	9965 000 18648	100M K 2.3X3.4 L5 TP
L603	9965 000 18648	100M K 2.3X3.4 L5 TP



R601	9965 000 19230	1k Ω 1/6 W 5% TA26
R602	9965 000 19230	1k Ω 1/6 W 5% TA26
R603	9965 000 19230	1k Ω 1/6 W 5% TA26
R604	9965 000 19252	56k Ω 1/6 W 5% TA26
R605	9965 000 18652	330 Ω 1/6 W 5% TA26
R617	9965 000 19253	1.5k Ω 1/6 W 5% TA26
R618	9965 000 19254	1.2k Ω 1/6 W 5% TA26
R619	9965 000 19253	1.5k Ω 1/6 W 5% TA26
R620	9965 000 19253	1.5k Ω 1/6 W 5% TA26
R621	9965 000 19255	8.2k Ω 1/6 W 5% TA26
R641	9965 000 19256	75 Ω 1/6 W 5.00% TA26



DG601	9965 000 19246	11-MT-139GK FUTABA SEG VFD COM
IC601	9965 000 19247	UPD16315GB-3BS NEC 44 QFP BK F



RC601	9322 155 82667	IR RECEIVER TSOP2236
SW60 8	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW60 9	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW61 0	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW61 1	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-

KEY ASSY PWB DVD755VR /xx

Various

A42	9965 000 19258	VCR PHILIPS COMBI
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R611	4822 116 52228	680Ω 5% 0.5W
R612	9965 000 19259	820 Ω 1/6 W 5% TA26
R613	9965 000 19254	1.2k Ω 1/6 W 5% TA26
R614	9965 000 19253	1.5k Ω 1/6 W 5% TA26
R615	9965 000 19260	2.2k Ω 1/6 W 5% TA26
R616	9965 000 19255	8.2k Ω 1/6 W 5% TA26

SW60 1	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW60 2	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW60 3	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW60 4	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW60 5	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW60 6	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-
SW60 7	9965 000 19257	THVV502GAA POSTECH DC 12 V 5-

VCR MECHANICAL DVD755VR /xx

Various

002	9965 000 19288	DRUM I2OAL05 SEJIN-SANKYO ICLE
003	9965 000 19290	FPC(6CH)
004	9965 000 19291	FPC
008	9965 000 19292	P=1.25 FFC UL2896(0.05X0.8) 7
009	9965 000 19293	T/UP(D35)
010	9965 000 19294	CHASSIS
011	9965 000 19295	TENSION(D35)
012	9965 000 19296	P2
013	9965 000 19297	P3
014	9965 000 19298	P4
015	9965 000 19299	LID(D35)
016	9965 000 19343	A/C HEAD (TDK)
017	9965 000 19300	S
018	9965 000 19301	COIL RS D35
019	9965 000 19302	RS
020	9965 000 19303	COIL D35 (TB)
021	9965 000 19304	T
022	9965 000 19305	D35 FE ST FE HEAD
023	9965 000 19306	LOADING
024	9965 000 19307	IDLER (H)
028	9965 000 19308	T
029	9965 000 19309	DECK/MECHA PINCH
030	9965 000 19310	T/UP
031	9965 000 19314	COIL TENSION(D35)
051	9965 000 19315	CAPSTAN
052	9965 000 19316	CAPSTAN F2QVB06 SANKYO D35 ASR
054	9965 000 19318	RACK F/L
055	9965 000 19320	DRIVE(D35)
056	9965 000 19321	CAM(D35)
058	9965 000 19322	CAPSTAN
060	9965 000 19323	F/R(D35)
061	9965 000 19324	D35 (M)
064	9965 000 19325	SECTOR(D35)
076	9965 000 19326	SPRING
077	9965 000 19327	SLIDER
078	9965 000 19328	TENSION
079	9965 000 19329	TENSION(D35)
100	9965 000 19330	TOP
102	9965 000 19333	COIL D35 (STOPPER)
109	9965 000 19334	DOOR
115	9965 000 19335	SWITCH
116	9965 000 19336	COIL D35 SWITCH
117	9965 000 19337	SPRING CST
401	9965 000 19338	D2.6 L4.5 MSWR3/FZY
402	9965 000 19339	D 2.6 L 4.0 MSWR3/FZY
405	9965 000 19340	+ 1 D2.6 L5.8 SWRCH16A/FZY TAP
406	4822 502 21655	
409	9965 000 19341	+ 1 D2.6 L5.0 SWRCH18A/FZY TAP
410	9965 000 19342	D2.6 L6.8 MSWR3/FZY
A01	9965 000 19280	D35-6CH PAL (8P6C)
A04	9965 000 19281	L/D(S)
A11	9965 000 19282	P3
A12	9965 000 19283	P2
A21	9965 000 19284	CST
A22	9965 000 19285	RACK F/L
A23	9965 000 19286	F/L
A24	9965 000 19287	ASSY SWITCH
002A	9965 000 19289	ASSY D33 (TIP+2 SPRING) 1.4,
052A	9965 000 19317	CAPSTAN(D35)
054A	9965 000 19319	COIL D35 (RACK F/L)

100A	9965 000 19331	GND
100B	9965 000 19332	TOP(D35)

MECHANICAL DVD755VR /00

Various

250	9965 000 18503	CASE
260	9965 000 18504	FRAME
285	9965 000 18506	DOOR ASSEMBLY
300	9965 000 18507	POWER CORD
330	9965 000 18486	
801	9965 000 19441	INSTRUCTION ASSEMBLY
900	9965 000 18509	REMOTE CONTROLLER ASSEMBLY

FRONT PWB DVD755VR /00

Various



283	9965 000 18512	DOOR.CASE
284	4822 492 42785	SPRING DOOR
A43	9965 000 19443	PANEL ASSEMBLY,FRONT[NORM AL PA

SUB PWB DVD755VR /00

A46A	9965 000 19444	444503D7160F30 000000 00003000
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C201	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C202	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C203	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C206	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C207	4822 124 23056	47μF 20% 16V
C208	4822 124 23056	47μF 20% 16V
C211	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C212	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C213	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C214	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C231	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C232	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C233	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C234	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C239	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C240	3198 017 31530	0603 50V 15nF COL R
C241	4822 124 23056	47μF 20% 16V
C243	4822 126 12223	560pF 50V
C244	4822 126 12223	560pF 50V
C245	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C251	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C252	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C253	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C254	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C255	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C257	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C258	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C259	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C260	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C261	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C262	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C263	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C264	3198 017 31530	0603 50V 15nF COL R
C265	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C266	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C267	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C268	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C269	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C270	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C271	9965 000 18559	390pF 50V J 1508 R/TP
C272	9965 000 18559	390pF 50V J 1508 R/TP
C273	9965 000 18560	0.033μF 50V K (X) 1508 R/TP
C274	9965 000 18561	470pF 50V J 1508 R/TP
C276	9965 000 13794	SMD 10pF 5% 50V 0603
C277	3198 017 31530	0603 50V 15nF COL R
C278	4822 126 11669	27pF
C279	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C280	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C281	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C282	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C283	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C291	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C292	4822 124 23056	47μF 20% 16V

C293	4822 124 23056	47µF 20% 16V	C576	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	L613	9965 000 18575	HB-1M2012-102JT	
C295	4822 124 11947	10µF 20% 16V	C577	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP			CERATECH TP	
C296	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	C578	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				
C297	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	C579	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	Q201	4822 130 10491	KTC3875S-GR-T1(ALG)	
C298	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	C580	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	Q202	3141 018 51690	TRA SM 2SK3018	
C401	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	C581	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	Q203	3141 018 51690	TRA SM 2SK3018	
C402	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	C582	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	Q204	4822 130 61269	2SA1037KQ	
C403	9965 000 18558	1µF 10V Z (F) 1508 R/TP	C583	4822 124 12052	220µF 20% 6,3V	Q205	4822 130 61269	2SA1037KQ	
C404	9965 000 18558	1µF 10V Z (F) 1508 R/TP	C584	4822 126 11669	27pF	Q401	4822 130 61269	2SA1037KQ	
C405	4822 124 23056	47µF 20% 16V	C585	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	Q404	9965 000 11427	KRA103S (SOP)	
C406	9965 000 18557	100µF SRA 16V M FM5 TP(5)	C586	9965 000 11253	CHIP 100P/50V (J) CH 0603	Q405	9965 000 11427	KRA103S (SOP)	
C407	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	C587	9965 000 11253	CHIP 100P/50V (J) CH 0603	Q501	4822 130 10491	KTC3875S-GR-T1(ALG)	
C408	4822 124 40804	22µF 20% 63V	C589	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				
C409	4822 124 40804	22µF 20% 63V	C590	4822 124 12052	220µF 20% 6,3V				
C410	4822 124 40804	22µF 20% 63V	C591	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				
C411	4822 124 40804	22µF 20% 63V	C592	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				
C412	9965 000 18557	100µF SRA 16V M FM5 TP(5)	C597	4822 126 11785	0603 50V 47P 5%		R201	4822 051 30103	10k 5% 0,062W
C413	5322 126 11578	1nF 10% 50V 0603	C5A1	4822 124 11947	10µF 20% 16V	R202	4822 117 13632	100k 1% 0603 0.62W	
C414	5322 126 11578	1nF 10% 50V 0603	C5A2	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R203	4822 051 30103	10k 5% 0,062W	
C415	9965 000 18562	270pF 50V 5% 1608 R/TP	C5C1	4822 124 23056	47µF 20% 16V	R204	4822 117 13632	100k 1% 0603 0.62W	
C416	9965 000 18562	270pF 50V 5% 1608 R/TP	C5C2	4822 124 23053	1µF 20% 63V	R205	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R	
C417	9965 000 18562	270pF 50V 5% 1608 R/TP	C5C4	4822 124 23053	1µF 20% 63V	R206	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R	
C418	9965 000 18562	270pF 50V 5% 1608 R/TP	C5C5	4822 124 23053	1µF 20% 63V	R207	4822 051 30008	0Ω jumper	
C419	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	C5C6	4822 124 23053	1µF 20% 63V	R208	4822 051 30008	0Ω jumper	
C420	9965 000 18557	100µF SRA 16V M FM5 TP(5)	C5C7	4822 124 23053	1µF 20% 63V	R209	4822 051 30008	0Ω jumper	
C421	9965 000 18563	3900pF 50V K Z5U(E) 1608 R/TP	C5C8	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R210	4822 051 30008	0Ω jumper	
C422	9965 000 18563	3900pF 50V K Z5U(E) 1608 R/TP	C5C9	4822 124 40804	22µF 20% 63V	R211	4822 117 13613	2Ω2 5% 0603	
C423	4822 124 40804	22µF 20% 63V	C5E0	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R212	9965 000 18576	750k Ω 1/16 W 5% 1608 R/TP	
C424	4822 124 40804	22µF 20% 63V	C601	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R213	9965 000 18577	390k Ω 1 / 16 W 1608 5.00% D	
C425	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	C602	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R214	9965 000 18576	750k Ω 1/16 W 5% 1608 R/TP	
C426	4822 124 12052	220µF 20% 6,3V	C603	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R215	9965 000 18577	390k Ω 1 / 16 W 1608 5.00% D	
C502	5322 126 11583	10nF 10% 50V 0603	C604	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R216	9965 000 18578	1 Ω 1 / 16 W 1608 5.00% D	
C503	5322 126 11583	10nF 10% 50V 0603	C605	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R217	4822 117 13613	2Ω2 5% 0603	
C504	5322 126 11583	10nF 10% 50V 0603	C606	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP	R218	4822 117 13613	2Ω2 5% 0603	
C505	5322 126 11583	10nF 10% 50V 0603				R220	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R	
C506	9965 000 11253	CHIP 100P/50V (J) CH 0603				R221	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R	
C507	5322 126 11583	10nF 10% 50V 0603				R231	4822 051 30222	2k2 5% 0,062W	
C508	9965 000 18564	2.2µF 16V 80%,-20% (F) 3216				R232	4822 051 30222	2k2 5% 0,062W	
C509	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R233	4822 117 13613	2Ω2 5% 0603	
C510	9965 000 11253	CHIP 100P/50V (J) CH 0603				R234	4822 117 13613	2Ω2 5% 0603	
C511	4822 124 23056	47µF 20% 16V				R235	4822 051 30103	10k 5% 0,062W	
C513	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R236	4822 051 30153	15k 5% 0,062W	
C514	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R237	4822 051 30273	27k 5% 0,062W	
C515	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R238	4822 051 30103	10k 5% 0,062W	
C516	9965 000 18564	2.2µF 16V 80%,-20% (F) 3216				R239	4822 051 30103	10k 5% 0,062W	
C517	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R240	4822 051 30103	10k 5% 0,062W	
C518	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R241	4822 051 30103	10k 5% 0,062W	
C519	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R242	4822 051 30273	27k 5% 0,062W	
C520	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R243	4822 051 30103	10k 5% 0,062W	
C521	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R244	4822 051 30153	15k 5% 0,062W	
C522	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R245	4822 051 30103	10k 5% 0,062W	
C523	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R246	4822 051 30103	10k 5% 0,062W	
C524	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R251	4822 051 30333	33k 5% 0,062W	
C525	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R252	4822 117 13632	100k 1% 0603 0.62W	
C526	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R253	4822 051 30273	27k 5% 0,062W	
C527	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R254	4822 051 30008	0Ω jumper	
C528	4822 124 23056	47µF 20% 16V				R255	4822 051 30008	0Ω jumper	
C530	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R256	4822 051 30103	10k 5% 0,062W	
C531	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R257	4822 051 30103	10k 5% 0,062W	
C532	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R258	4822 051 30008	0Ω jumper	
C533	4822 126 14507	18pF 5% 50V 0603				R259	4822 051 30008	0Ω jumper	
C534	2222 867 15339	0603 50V 33P 5%				R401	4822 051 30102	1k 5% 0,062W	
C535	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R402	4822 051 30008	0Ω jumper	
C536	5322 126 11578	1nF 10% 50V 0603				R403	4822 051 30008	0Ω jumper	
C537	5322 126 11578	1nF 10% 50V 0603				R404	4822 051 30008	0Ω jumper	
C538	5322 126 11578	1nF 10% 50V 0603				R405	4822 051 30008	0Ω jumper	
C539	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R407	4822 051 30562	5k6 5% 0,063W 0603 RC21 RST SM	
C540	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R408	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R	
C541	4822 124 11947	10µF 20% 16V				R409	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R	
C542	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R410	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R	
C543	4822 124 11947	10µF 20% 16V				R411	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R	
C544	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R412	4822 117 12902	8k2 1% 0.063W 0603	
C545	4822 124 11947	10µF 20% 16V				R413	4822 117 12903	1k8 1% 0.063W 0603	
C554	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R414	4822 117 12903	1k8 1% 0.063W 0603	
C555	4822 124 11947	10µF 20% 16V				R415	4822 117 12902	8k2 1% 0.063W 0603	
C556	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R416	4822 117 12903	1k8 1% 0.063W 0603	
C557	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R417	4822 051 30472	4k7 5% 0,062W	
C558	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP				R418	4822 117 12902	8k2 1% 0.063W 0603	
C559	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP							
C560	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP							
C561	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP							
C563	4822 124 12052	220µF 20% 6,3V							
C564	4822 124 12052	220µF 20% 6,3V							
C567	4822 126 13883	220pF 5% 50V							
C568	4822 126 13883	220pF 5% 50V							
C569	4822 126 13883	220pF 5% 50V							
C575	9965 000 18556	0.1µF 50V Z (F) 1508 R/TP							

R419	4822 117 12902	8k2 1% 0.063W 0603	IC505	9965 000 18571	S524A40X21-SC70 SOP8	C355	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R420	4822 117 12903	1k8 1% 0.063W 0603			TP EEPROM			
R421	4822 051 30331	330Ω 5% 0,062W	IC510	9965 000 18554	MM74HCT244SJ 20P SOIC	C356	4822 124 23053	1μF 20% 63V
R422	4822 051 30331	330Ω 5% 0,062W			TP 3-STA	C357	4822 124 23053	1μF 20% 63V
R423	4822 051 30102	1k 5% 0,062W	IC5C1	9965 000 18573	MM1623XFBE MITSUMI	C358	4822 126 13694	68pF 1% 63V
R424	4822 051 30102	1k 5% 0,062W			28PIN SOP R	C359	4822 124 23053	1μF 20% 63V
R425	4822 051 30102	1k 5% 0,062W	ZD501	4822 130 83206	BZX79-B5V6	C361	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP
R426	4822 051 30102	1k 5% 0,062W						
R427	4822 051 30102	1k 5% 0,062W				C362	4822 124 23056	47μF 20% 16V
R501	4822 117 12902	8k2 1% 0.063W 0603				C363	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
R502	9965 000 18576	750k Ω 1/16 W 5% 1608 R/TP						
						C366	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
R503	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D				C367	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R504	4822 051 30008	0Ω jumper						
R505	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D	323	9965 000 18584	VCR - PRE-AMP (02-PAL)	C368	9965 000 18599	8200P 50V K B 2.0X1.2 R/TP
R506	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D	A46	9965 000 19445	VCR VP600CIK NA4UPP	C369	4822 126 13221	100pF 2% 63V
R507	4822 051 30152	1k5 5% 0,062W	BC91	9965 000 18585	BEAD CORE	C370	4822 126 13695	82pF 1% 63V
R508	4822 117 13632	100k 1% 0603 0.62W			BFS3550R2FD8,R T/P	C371	4822 126 13695	82pF 1% 63V
R509	4822 051 30008	0Ω jumper	BC92	9965 000 18585	BEAD CORE	C372	4822 126 13695	82pF 1% 63V
R510	4822 051 30008	0Ω jumper			BFS3550R2FD8,R T/P	C374	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R511	4822 051 30183	18k 5% 0,062W						
R512	4822 117 13632	100k 1% 0603 0.62W				C375	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R513	4822 051 30008	0Ω jumper				C376	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R515	4822 051 30339	33Ω 5% 0,062W				C377	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R516	4822 051 30339	33Ω 5% 0,062W	C216	4822 051 20008	0R00 JUMP. ()	C500	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
R517	4822 051 30339	33Ω 5% 0,062W	C301	4822 124 11947	10μF 20% 16V	C501	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R518	4822 051 30339	33Ω 5% 0,062W	C302	4822 124 40804	22μF 20% 63V	C502	4822 124 23056	47μF 20% 16V
R519	4822 051 30339	33Ω 5% 0,062W	C303	9965 000 18591	1800pF 50V 10% B(5YP) 2012 R/T	C503	4822 124 12052	220μF 20% 6,3V
R520	4822 051 30339	33Ω 5% 0,062W				C504	4822 124 12052	220μF 20% 6,3V
R521	4822 051 30339	33Ω 5% 0,062W	C304	4822 124 23056	47μF 20% 16V	C505	4822 124 23056	47μF 20% 16V
R522	4822 051 30339	33Ω 5% 0,062W	C305	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP	C506	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP
R523	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D	C306	9965 000 18592	1200P 50V K B 2.0X1.25 R/TP			
						C508	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R524	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D	C307	4822 124 23053	1μF 20% 63V	C509	9965 000 18601	22P 50V J 2.0X1.2 R/TP
R525	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D	C308	9965 000 18593	0.015μF 50V K B 2.0X1.2 R/TP	C511	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R526	4822 051 30101	100Ω 5% 0,062W	C309	9965 000 18594	220P 50V J 2.0X1.25 R/TP	C512	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
R527	4822 051 30472	4k7 5% 0,062W	C310	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP	C513	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
R528	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D	C311	9965 000 18595	47μF SR,SV 50V M FL TP 5	C514	9965 000 18603	12pF 50V 5% 2012 R/TP
			C312	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP	C515	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP
R529	4822 051 30008	0Ω jumper				C516	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP
R534	4822 051 30102	1k 5% 0,062W	C313	9965 000 18596	0.022μF S 63V K PP NI TP5	C518	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP
R535	4822 051 30102	1k 5% 0,062W	C314	4822 124 11947	10μF 20% 16V	C519	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R564	4822 051 30183	18k 5% 0,062W	C315	9965 000 18590	2.2μF SRA,SS 50V 20% FM5 TP 5	C520	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
R565	4822 051 30183	18k 5% 0,062W				C521	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
R566	4822 051 30103	10k 5% 0,062W	C316	4822 124 11947	10μF 20% 16V	C523	9965 000 18590	2.2μF SRA,SS 50V 20% FM5 TP 5
R567	4822 051 30103	10k 5% 0,062W	C317	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP	C524	4822 124 23056	47μF 20% 16V
R570	4822 051 30008	0Ω jumper				C525	9965 000 18606	1μF 16V Z (F) 2012 R/TP
R573	4822 051 30221	220Ω 5% 0,062W	C318	4822 124 23053	1μF 20% 63V	C526	9965 000 18607	47μF SRA,SS 35V M FM5 TP 5
R574	4822 051 30221	220Ω 5% 0,062W	C319	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP	C527	9965 000 18594	220P 50V J 2.0X1.25 R/TP
R577	4822 051 30471	470Ω 5% 0,062W				C533	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
R578	4822 051 30101	100Ω 5% 0,062W	C320	4822 124 23053	1μF 20% 63V	C534	4822 124 40769	4.7μF 20% 100V
R579	4822 051 30102	1k 5% 0,062W	C321	4822 126 13694	68pF 1% 63V	C535	9965 000 18606	1μF 16V Z (F) 2012 R/TP
R580	4822 051 30102	1k 5% 0,062W	C322	4822 124 11947	10μF 20% 16V	C543	9965 000 18608	2200P 50V K B 2.0X1.25 R/TP
R581	4822 051 30102	1k 5% 0,062W	C323	4822 124 11947	10μF 20% 16V			
R584	4822 117 12139	22Ω 5% 0,062W	C324	4822 124 40769	4.7μF 20% 100V	C544	9965 000 18609	0.047μF 50V Z (F) 2012 R/TP
R585	9965 000 18581	110 Ω 1 / 16 W 1608 5.00% D	C325	4822 124 11947	10μF 20% 16V	C545	9965 000 18610	0.033μF 25V K B 2.0X1.25 R/TP
R586	4822 051 30759	75Ω 5% 0,062W	C326	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP	C546	9965 000 18607	47μF SRA,SS 35V M FM5 TP 5
R587	9965 000 18581	110 Ω 1 / 16 W 1608 5.00% D				C547	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP
R5A7	4822 051 30103	10k 5% 0,062W	C327	4822 124 23053	1μF 20% 63V	C551	9965 000 18610	0.033μF 25V K B 2.0X1.25 R/TP
R5A9	4822 051 30102	1k 5% 0,062W	C328	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP	C552	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP
R5C1	4822 051 30151	150Ω 5% 0,062W						
R5C3	4822 051 30151	150Ω 5% 0,062W	C329	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP	C561	4822 124 12052	220μF 20% 6,3V
R5C4	4822 051 30151	150Ω 5% 0,062W				C564	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
R5C5	4822 051 30151	150Ω 5% 0,062W	C330	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C567	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
R5C6	4822 051 30151	150Ω 5% 0,062W				C570	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP
R5C9	4822 051 30008	0Ω jumper	C331	4822 124 40804	22μF 20% 63V	C571	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP
R5E1	4822 051 30008	0Ω jumper	C333	4822 124 23056	47μF 20% 16V			
R601	4822 051 30759	75Ω 5% 0,062W	C334	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP			
R602	4822 051 30759	75Ω 5% 0,062W						
R603	4822 051 30759	75Ω 5% 0,062W	C335	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP			
R604	4822 051 30759	75Ω 5% 0,062W						
R605	4822 051 30759	75Ω 5% 0,062W	C336	4822 124 23056	47μF 20% 16V			
R606	4822 051 30759	75Ω 5% 0,062W	C337	4822 124 23053	1μF 20% 63V			
R607	4822 051 30008	0Ω jumper	C338	4822 126 13751	47nF 10% 63V			
R608	4822 051 30008	0Ω jumper	C339	4822 124 23053	1μF 20% 63V			
R609	4822 051 30008	0Ω jumper	C340	4822 126 13751	47nF 10% 63V			
R610	4822 051 30008	0Ω jumper	C341	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP			
R611	4822 051 30008	0Ω jumper						
X501	9965 000 18582	HC-49/S BUBANG 27MHz 20PPM 1	C342	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
IC201	9965 000 18567	MT1336E MEDIATEK INCORPORATION	C343	4822 126 13751	47nF 10% 63V			
IC202	9965 000 18568	LA6560-A-TE-L SANYO HSOP-36R R	C345	9965 000 18598	0.056μF 50V 10% B(5YP) 2012 R/			
IC401	9965 000 11006	CS4391 TSSOP20	C346	4822 124 23056	47μF 20% 16V			
IC402	9965 000 04714	IC NJM4580M	C347	4822 124 23053	1μF 20% 63V			
IC501	9965 000 18569	MT1379DE MEDIATEK INCORPORATIO	C348	4822 124 23053	1μF 20% 63V			
			C349	4822 124 23056	47μF 20% 16V			
IC502	9965 000 18570	M12L16161A-7T-TI ELITE MEMORY	C350	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
IC503	9965 000 18570	M12L16161A-7T-TI ELITE MEMORY	C351	9965 000 18594	220P 50V J 2.0X1.25 R/TP			
			C353	4822 124 23053	1μF 20% 63V			

C575	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C814	4822 124 23056	47μF 20% 16V	L305	9965 000 18641	100M K 6X6 L5 TP
C576	9965 000 18611	27P 50V J COG 2.0X1.2 R/TP	C815	4822 124 11947	10μF 20% 16V	L307	9965 000 18640	10μH 5% TP 3X5 TR5
C577	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP	C816	4822 124 11947	10μF 20% 16V	L501	9965 000 18642	12M K 2.3X3.4 L5 TP
C578	9965 000 18608	2200P 50V K B 2.0X1.25 R/TP	C817	4822 124 11947	10μF 20% 16V	L503	9965 000 18643	100μH 5% TP 3X5 TR5
C581	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C818	4822 124 23056	47μF 20% 16V	L504	9965 000 18640	10μH 5% TP 3X5 TR5
C582	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C819	9965 000 18622	6800pF 50V 10% B(5YP) 2012 R/T	L505	9965 000 18641	100M K 6X6 L5 TP
C583	9965 000 18606	1μF 16V Z (F) 2012 R/TP	C820	4822 124 11947	10μF 20% 16V	L506	9965 000 18644	EL0405RA SKI150G-3 K-15μH
C596	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C821	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	L5S1	9965 000 18645	33M K 2.3X3.4 L5 TP
C5A3	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C822	4822 124 23056	47μF 20% 16V	L701	9965 000 18641	100M K 6X6 L5 TP
C5A4	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C823	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	L702	9965 000 18646	10M K 6X6 L5 TP
C5A5	4822 124 23053	1μF 20% 63V	C824	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	L704	9965 000 18646	10M K 6X6 L5 TP
C5K1	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C825	4822 124 23056	47μF 20% 16V	L705	9965 000 18646	10M K 6X6 L5 TP
C5L1	9965 000 18606	1μF 16V Z (F) 2012 R/TP	C826	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	L706	9965 000 18647	8.2M K 2.3X3.4 L5 TP
C5L6	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C828	4822 124 23053	1μF 20% 63V	L7M1	9965 000 18641	100M K 6X6 L5 TP
C5P1	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C829	4822 124 23053	1μF 20% 63V	L801	9965 000 18641	100M K 6X6 L5 TP
C5P2	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C834	9965 000 18623	470μF SRA,SS 16V 20% FM5 TP 5	L803	9965 000 18641	100M K 6X6 L5 TP
C5S1	9965 000 18612	43pF 50V J 2012 R/TP	C855	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	L901	9965 000 18648	100M K 2.3X3.4 L5 TP
C5S3	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP	C856	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	L902	9965 000 18648	100M K 2.3X3.4 L5 TP
C706	9965 000 18613	33P 50V J C 2.0X1.2 R/TP	C857	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	L903	9965 000 18648	100M K 2.3X3.4 L5 TP
C707	4822 126 13694	68pF 1% 63V	C859	4822 124 40804	22μF 20% 63V	L904	9965 000 18648	100M K 2.3X3.4 L5 TP
C708	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5	C860	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	L905	9965 000 18648	100M K 2.3X3.4 L5 TP
C709	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C861	4822 124 11947	10μF 20% 16V	L906	9965 000 18648	100M K 2.3X3.4 L5 TP
C710	4822 124 40769	4.7μF 20% 100V	C863	4822 124 23056	47μF 20% 16V	L907	9965 000 18648	100M K 2.3X3.4 L5 TP
C712	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C864	4822 124 23053	1μF 20% 63V	L908	9965 000 18648	100M K 2.3X3.4 L5 TP
C713	9965 000 18614	56P 50V J 2.0X1.25 R/TP	C869	4822 124 11947	10μF 20% 16V	L909	9965 000 18648	100M K 2.3X3.4 L5 TP
C714	9965 000 18614	56P 50V J 2.0X1.25 R/TP	C870	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	L910	9965 000 18648	100M K 2.3X3.4 L5 TP
C715	9965 000 18615	5P 50V C COG 2.0X1.2 R/TP	C871	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C716	2238 861 18109	50V 10P PM1 R	C884	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C717	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C885	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C718	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C886	9965 000 18623	470μF SRA,SS 16V 20% FM5 TP 5			
C719	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C887	4822 124 11947	10μF 20% 16V			
C720	9965 000 18617	1500pF 50V 10% B(5YP) 2012 R/T	C888	4822 124 11947	10μF 20% 16V			
C721	9965 000 18618	3900P 50V K 2.0X1.2 R/TP	C889	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C722	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C890	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C723	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C891	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C726	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C892	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C727	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C908	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP			
C728	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C910	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP			
C729	9965 000 18619	3.3μF SRA,SS 50V 20% FM5 TP 5	C912	9965 000 18624	1000P 50V K B TA26			
C730	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C915	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP			
C731	9965 000 18620	9pF 50V 0.5 pF 2012 R/TP	C916	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP			
C732	4822 124 11947	10μF 20% 16V	C921	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP			
C751	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C931	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5			
C752	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C932	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5			
C755	4822 124 11947	10μF 20% 16V	C933	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5			
C7M1	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C938	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C7M2	9965 000 18616	47M SRA 6.3V M FM5 TP(5)						
C7M6	9965 000 18611	27P 50V J COG 2.0X1.2 R/TP						
C802	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)						
C803	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)						
C804	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)						
C805	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)						
C806	4822 124 11947	10μF 20% 16V						
C807	9965 000 18588	0.47M SRA 50V M FM5 TP(5)						
C808	4822 124 23053	1μF 20% 63V						
C809	4822 124 23053	1μF 20% 63V						
C810	9965 000 18606	1μF 16V Z (F) 2012 R/TP						
C811	9965 000 18606	1μF 16V Z (F) 2012 R/TP						
C812	4822 124 11947	10μF 20% 16V						
C813	9965 000 18622	6800pF 50V 10% B(5YP) 2012 R/T						

D301	4822 130 32778	1SS133
D502	4822 130 32778	1SS133
D509	4822 130 32778	1SS133
D801	4822 130 32778	1SS133
D802	4822 130 32778	1SS133
D902	4822 130 32778	1SS133
F8A1	9965 000 18627	CFI06B1H101MF SAMHWA TP 2-5K

L301	9965 000 18640	10μH 5% TP 3X5 TR5
L302	9965 000 18641	100M K 6X6 L5 TP
L303	9965 000 18640	10μH 5% TP 3X5 TR5
L304	9965 000 18640	10μH 5% TP 3X5 TR5

R173	4822 051 20472	4k7 5% 0,1W
R301	4822 117 11148	56k 1% 0,1W
R302	4822 117 10833	10k 1% 0,1W
R303	4822 117 10965	18k 1% 0,1W
R304	4822 117 10833	10k 1% 0,1W
R305	4822 117 10833	10k 1% 0,1W
R306	4822 051 20223	22k 5% 0,1W
R307	4822 117 11449	2k2 5% 0,1W 0805
R308	4822 051 20472	4k7 5% 0,1W
R309	4822 051 20102	1k 5% 0,1W
R310	4822 051 20472	4k7 5% 0,1W
R311	4822 051 20102	1k 5% 0,1W
R312	4822 051 20683	68k 5% 0,1W
R313	4822 051 20228	2Ω2 5% 0,1W
R314	4822 051 20102	1k 5% 0,1W
R315	4822 051 20479	47Ω 5% 0,1W
R316	4822 117 11373	100Ω 1% RC12H 0805
R317	4822 051 20562	5k6 5% 0,1W 0805
R318	4822 051 20392	3k9 5% 0,1W
R319	4822 051 20561	560Ω 5% 0,1W
R320	4822 117 10353	150Ω 1% 0,1W
R321	4822 051 20122	1k2 5% 0,1W
R322	4822 051 20102	1k 5% 0,1W
R324	4822 051 20334	330k 5% 0,1W
R325	4822 051 20471	470Ω 5% 0,1W
R326	4822 117 11383	12k 1% 0,1W
R327	4822 051 20562	5k6 5% 0,1W 0805

R328	4822 117 11504	270Ω 1% 0.1W
R329	4822 117 11383	12k 1% 0.1W
R330	4822 117 10833	10k 1% 0.1W
R331	4822 051 20472	4k7 5% 0.1W
R332	4822 117 10834	47k 1% 0.1W
R333	4822 051 20392	3k9 5% 0.1W
R334	4822 117 12955	2k7 1% 0.1W 0805
R335	4822 117 11507	6k8 1% 0.1W
R336	4822 117 10837	100k 1% 0.1W
R337	4822 117 11449	2k2 5% 0.1W 0805
R338	4822 117 11504	270Ω 1% 0.1W
R339	4822 117 11504	270Ω 1% 0.1W
R340	4822 117 10965	18k 1% 0.1W
R342	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R343	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R344	4822 051 20471	470Ω 5% 0.1W
R345	4822 051 20471	470Ω 5% 0.1W
R346	4822 117 11373	100Ω 1% RC12H 0805
R347	4822 117 11373	100Ω 1% RC12H 0805
R348	4822 051 20155	1M5 5% 0.1W
R349	4822 051 20182	1k8 5% 0.1W
R350	4822 117 10833	10k 1% 0.1W
R351	4822 051 20824	820k 5% 0.1W
R352	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R353	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R3A2	4822 051 20008	0Ω jumper . (0805)
R501	4822 117 11373	100Ω 1% RC12H 0805
R502	4822 117 11373	100Ω 1% RC12H 0805
R503	4822 051 20472	4k7 5% 0.1W
R504	4822 051 20102	1k 5% 0.1W
R505	4822 051 20102	1k 5% 0.1W
R506	4822 051 20008	0Ω jumper . (0805)
R508	4822 051 20332	3k3 5% 0.1W
R509	4822 051 20182	1k8 5% 0.1W
R510	4822 117 11449	2k2 5% 0.1W 0805
R511	4822 051 20102	1k 5% 0.1W
R512	4822 051 20102	1k 5% 0.1W
R513	4822 051 20102	1k 5% 0.1W
R514	4822 051 20124	120k 5% 0.1W
R515	4822 117 11504	270Ω 1% 0.1W
R516	4822 051 20474	470k 5% 0.1W
R517	4822 051 20471	470Ω 5% 0.1W
R518	4822 051 20102	1k 5% 0.1W
R520	4822 051 20392	3k9 5% 0.1W
R521	4822 051 20472	4k7 5% 0.1W
R522	4822 051 20102	1k 5% 0.1W
R523	4822 117 10833	10k 1% 0.1W
R524	4822 051 20229	22Ω 5% 0.1W
R525	4822 051 20562	5k6 5% 0.1W 0805
R526	4822 051 20562	5k6 5% 0.1W 0805
R527	4822 051 20102	1k 5% 0.1W
R528	4822 051 20472	4k7 5% 0.1W
R529	4822 117 10833	10k 1% 0.1W
R530	4822 051 20472	4k7 5% 0.1W
R531	4822 117 10833	10k 1% 0.1W
R535	4822 051 20474	470k 5% 0.1W
R542	4822 117 11449	2k2 5% 0.1W 0805
R543	4822 117 11373	100Ω 1% RC12H 0805
R544	4822 051 20472	4k7 5% 0.1W
R545	4822 051 20008	0Ω jumper . (0805)
R546	4822 051 20562	5k6 5% 0.1W 0805
R547	4822 117 11383	12k 1% 0.1W
R548	4822 117 10837	100k 1% 0.1W
R550	4822 117 11503	220Ω 1% 0.1W
R553	4822 117 11503	220Ω 1% 0.1W
R554	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R555	4822 117 11503	220Ω 1% 0.1W
R556	4822 051 20223	22k 5% 0.1W
R557	4822 051 20273	27k 5% 0.1W
R558	4822 051 20223	22k 5% 0.1W
R559	4822 051 20472	4k7 5% 0.1W
R560	4822 051 20472	4k7 5% 0.1W
R561	4822 051 20561	560Ω 5% 0.1W
R562	4822 051 20561	560Ω 5% 0.1W
R563	4822 051 20562	5k6 5% 0.1W 0805
R564	4822 051 20273	27k 5% 0.1W
R566	4822 051 20472	4k7 5% 0.1W
R567	4822 117 10833	10k 1% 0.1W
R568	4822 051 20683	68k 5% 0.1W
R569	4822 051 20105	1M 5% 0.1W
R570	4822 051 20472	4k7 5% 0.1W
R575	4822 051 20472	4k7 5% 0.1W
R576	4822 051 20472	4k7 5% 0.1W
R577	4822 051 20472	4k7 5% 0.1W
R578	4822 051 20472	4k7 5% 0.1W
R579	4822 117 11148	56k 1% 0.1W
R582	4822 117 11373	100Ω 1% RC12H 0805
R583	4822 117 10833	10k 1% 0.1W
R589	4822 051 20105	1M 5% 0.1W

R591	4822 117 10837	100k 1% 0.1W
R5A2	4822 117 10833	10k 1% 0.1W
R5A3	4822 117 10833	10k 1% 0.1W
R5A5	4822 051 20474	470k 5% 0.1W
R5B3	4822 051 20102	1k 5% 0.1W
R5B4	4822 051 20102	1k 5% 0.1W
R5B5	4822 117 11373	100Ω 1% RC12H 0805
R5C1	4822 051 20102	1k 5% 0.1W
R5C5	4822 051 20102	1k 5% 0.1W
R5C6	4822 051 20102	1k 5% 0.1W
R5C7	4822 051 20102	1k 5% 0.1W
R5C9	4822 117 10833	10k 1% 0.1W
R5K6	4822 117 11373	100Ω 1% RC12H 0805
R5K7	4822 117 11373	100Ω 1% RC12H 0805
R5K8	4822 117 11373	100Ω 1% RC12H 0805
R5L1	4822 051 20008	0Ω jumper . (0805)
R5P2	4822 117 10833	10k 1% 0.1W
R5P3	4822 117 10833	10k 1% 0.1W
R5R8	4822 051 20102	1k 5% 0.1W
R5S1	4822 051 20562	5k6 5% 0.1W 0805
R5S2	9965 000 18652	330 Ω 1/6 W 5% TA26
R705	4822 117 11503	220Ω 1% 0.1W
R706	4822 117 11503	220Ω 1% 0.1W
R707	4822 051 20102	1k 5% 0.1W
R710	4822 051 20332	3k3 5% 0.1W
R711	4822 051 20332	3k3 5% 0.1W
R712	4822 051 20472	4k7 5% 0.1W
R713	4822 051 20562	5k6 5% 0.1W 0805
R714	4822 051 20008	0Ω jumper . (0805)
R715	4822 117 11449	2k2 5% 0.1W 0805
R716	4822 051 20102	1k 5% 0.1W
R717	4822 117 11373	100Ω 1% RC12H 0805
R718	4822 117 11373	100Ω 1% RC12H 0805
R719	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R7M1	4822 051 20102	1k 5% 0.1W
R7M2	4822 117 11503	220Ω 1% 0.1W
R7M4	4822 051 20102	1k 5% 0.1W
R7M5	4822 117 11503	220Ω 1% 0.1W
R801	4822 051 20335	3M3 5% 0.1W
R802	4822 051 20333	33k 5% 0.1W
R803	4822 117 12955	2k7 1% 0.1W 0805
R804	4822 051 20393	39k 5% 0.1W
R805	4822 117 12955	2k7 1% 0.1W 0805
R806	4822 051 20333	33k 5% 0.1W
R807	4822 051 20471	470Ω 5% 0.1W
R808	4822 117 10833	10k 1% 0.1W
R809	4822 117 10965	18k 1% 0.1W
R810	4822 117 11373	100Ω 1% RC12H 0805
R811	4822 117 11373	100Ω 1% RC12H 0805
R812	4822 051 20102	1k 5% 0.1W
R821	4822 117 11449	2k2 5% 0.1W 0805
R822	4822 117 10837	100k 1% 0.1W
R823	4822 117 11449	2k2 5% 0.1W 0805
R824	4822 117 10837	100k 1% 0.1W
R825	4822 051 20561	560Ω 5% 0.1W
R826	4822 051 20561	560Ω 5% 0.1W
R835	4822 117 11927	75Ω 0.1W
R841	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R842	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R850	4822 117 11373	100Ω 1% RC12H 0805
R851	4822 117 11373	100Ω 1% RC12H 0805
R861	4822 051 20472	4k7 5% 0.1W
R862	4822 051 20472	4k7 5% 0.1W
R863	4822 051 20472	4k7 5% 0.1W
R864	4822 051 20472	4k7 5% 0.1W
R874	4822 117 11927	75Ω 0.1W
R875	4822 051 20472	4k7 5% 0.1W
R876	4822 051 20472	4k7 5% 0.1W
R890	4822 117 11927	75Ω 0.1W
R901	4822 117 11383	12k 1% 0.1W
R902	4822 117 10833	10k 1% 0.1W
R903	4822 117 11927	75Ω 0.1W
R904	4822 051 20561	560Ω 5% 0.1W
R905	4822 051 20561	560Ω 5% 0.1W
R906	4822 051 20561	560Ω 5% 0.1W
R907	4822 051 20561	560Ω 5% 0.1W
R908	4822 051 20008	0Ω jumper . (0805)
R909	4822 051 20008	0Ω jumper . (0805)
R910	4822 051 20008	0Ω jumper . (0805)
R911	4822 051 20102	1k 5% 0.1W
R913	4822 117 11927	75Ω 0.1W
R914	4822 117 11927	75Ω 0.1W
R919	4822 051 20472	4k7 5% 0.1W
R920	4822 117 10361	680Ω 1% 0.1W
R927	4822 051 20102	1k 5% 0.1W
R928	4822 051 20008	0Ω jumper . (0805)
R929	4822 051 20008	0Ω jumper . (0805)
R930	4822 051 20102	1k 5% 0.1W
R931	4822 117 11503	220Ω 1% 0.1W
R932	4822 117 11503	220Ω 1% 0.1W
R933	4822 117 10837	100k 1% 0.1W

R934	4822 117 10837	100k 1% 0.1W
W714	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W901	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W902	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W903	9965 000 18656	1.0M K 2.3X3.4 L5 TP
X301	9965 000 18657	HC49U BUBANG 4-433709MHz 15P
X501	9965 000 18658	HC-49S BUBANG 10MHz +/-30 PPM
X502	9965 000 18659	C-001R SEIKO EPSON 32.768 KHZ
X751	9965 000 18660	49U BUBANG 18432000HZ 30PPM 16



CS501	9965 000 18625	MPU11810MLB0 MIC DC 5V 1MA D-3
ES501	9965 000 18626	END (DI)
ES502	9965 000 18626	END (DI)
FL301	9965 000 18628	BIAC OSC.1CHIP 5V(KS-75M) KWAN
IC301	9965 000 18630	LA71750EM SANYO 100PIN QFP TRA
IC501	9965 000 18631	HD6432197SA26F HITACHI 112PIN
IC503	9965 000 18632	CAT24W16P 8P DIP ST 16K SERIAL
IC504	9965 000 18633	KIA7031P 3P 3.1V RESET(TAPING)
IC505	9965 000 18634	KIA7042P
IC751	9965 000 14760	AUD UP MSP3417G-QG-B8-V3
IC801	9352 631 46557	IC SM TDA9605H/N2
IC802	9965 000 18635	MM1443XJ SSOP-34 TP CANAL S/W



LD501	9965 000 18649	LED(DI-CKD)LOCAL
MS501	9965 000 18650	NON 5V 1MA VERTICAL -G



RS501	9965 000 18653	SG-260 KODENSHI D33 REEL SENSO
RS502	9965 000 18653	SG-260 KODENSHI D33 REEL SENSO
SC901	9965 000 18654	DSAM-0121 DOOWON 2F-21P(BL-BK)



TU701	9965 000 19446	TADC-M401D(GKI,LGIT) LG INOTEK
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MECHANICAL DVD755VR /05

Various

250	9965 000 18503	CASE
260	9965 000 18504	FRAME
285	9965 000 18506	DOOR ASSEMBLY
300	9965 000 19451	POWER CORD
330	9965 000 18486	
801	9965 000 19452	INSTRUCTION ASSEMBLY
900	9965 000 18509	REMOTE CONTROLLER ASSEMBLY

FRONT PWB DVD755VR /05

Various

283	9965 000 18512	DOOR.CASE
284	4822 492 42785	SPRING DOOR
A43	9965 000 19454	PANEL ASSEMBLY,FRONT[NORM AL PA

SUB PWB DVD755VR /05

A46A	9965 000 19455	474200D7160F30 000000 00003000
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C201	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
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R215	9965 000 18577	390k Ω 1 / 16 W 1608 5.00% D	R527	4822 051 30472	4k7 5% 0,062W	C310	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R216	9965 000 18578	1 Ω 1 / 16 W 1608 5.00% D	R528	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D	C311	9965 000 18595	47μF SR,SV 50V M FL TP 5		
R217	4822 117 13613	2Ω2 5% 0603				C312	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R218	4822 117 13613	2Ω2 5% 0603	R529	4822 051 30008	0Ω jumper	C313	9965 000 18596	0.022μF S 63V K PP NI TP5		
R220	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R	R534	4822 051 30102	1k 5% 0,062W	C314	4822 124 11947	10μF 20% 16V		
R221	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R	R535	4822 051 30102	1k 5% 0,062W	C315	9965 000 18590	2.2μF SRA,SS 50V 20% FM5 TP 5		
R231	4822 051 30222	2k2 5% 0,062W	R564	4822 051 30183	18k 5% 0,062W	C316	4822 124 11947	10μF 20% 16V		
R232	4822 051 30222	2k2 5% 0,062W	R565	4822 051 30183	18k 5% 0,062W	C317	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R233	4822 117 13613	2Ω2 5% 0603	R566	4822 051 30103	10k 5% 0,062W	C318	4822 124 23053	1μF 20% 63V		
R234	4822 117 13613	2Ω2 5% 0603	R567	4822 051 30103	10k 5% 0,062W	C319	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R235	4822 051 30103	10k 5% 0,062W	R570	4822 051 30008	0Ω jumper	C320	4822 124 23053	1μF 20% 63V		
R236	4822 051 30153	15k 5% 0,062W	R573	4822 051 30221	220Ω 5% 0,062W	C321	4822 126 13694	68pF 1% 63V		
R237	4822 051 30273	27k 5% 0,062W	R574	4822 051 30221	220Ω 5% 0,062W	C322	4822 124 11947	10μF 20% 16V		
R238	4822 051 30103	10k 5% 0,062W	R577	4822 051 30471	470Ω 5% 0,062W	C323	4822 124 11947	10μF 20% 16V		
R239	4822 051 30103	10k 5% 0,062W	R578	4822 051 30101	100Ω 5% 0,062W	C324	4822 124 40769	4.7μF 20% 100V		
R240	4822 051 30103	10k 5% 0,062W	R579	4822 051 30102	1k 5% 0,062W	C325	4822 124 11947	10μF 20% 16V		
R241	4822 051 30103	10k 5% 0,062W	R580	4822 051 30102	1k 5% 0,062W	C326	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R242	4822 051 30273	27k 5% 0,062W	R581	4822 051 30102	1k 5% 0,062W	C327	4822 124 23053	1μF 20% 63V		
R243	4822 051 30103	10k 5% 0,062W	R584	4822 117 12139	22Ω 5% 0,062W	C328	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R244	4822 051 30153	15k 5% 0,062W	R585	9965 000 18581	110 Ω 1 / 16 W 1608 5.00% D	C329	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R245	4822 051 30103	10k 5% 0,062W	R586	4822 051 30759	75Ω 5% 0,062W	C330	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)		
R246	4822 051 30103	10k 5% 0,062W	R587	9965 000 18581	110 Ω 1 / 16 W 1608 5.00% D	C331	4822 124 40804	22μF 20% 63V		
R251	4822 051 30333	33k 5% 0,062W	R5A7	4822 051 30103	10k 5% 0,062W	C333	4822 124 23056	47μF 20% 16V		
R252	4822 117 13632	100k 1% 0603 0.62W	R5A9	4822 051 30102	1k 5% 0,062W	C334	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R253	4822 051 30273	27k 5% 0,062W	R5C1	4822 051 30151	150Ω 5% 0,062W	C335	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R254	4822 051 30008	0Ω jumper	R5C3	4822 051 30151	150Ω 5% 0,062W	C336	4822 124 23056	47μF 20% 16V		
R255	4822 051 30008	0Ω jumper	R5C4	4822 051 30151	150Ω 5% 0,062W	C337	4822 124 23053	1μF 20% 63V		
R256	4822 051 30103	10k 5% 0,062W	R5C6	4822 051 30008	0Ω jumper	C338	4822 126 13751	47nF 10% 63V		
R257	4822 051 30103	10k 5% 0,062W	R5C9	4822 051 30008	0Ω jumper	C339	4822 124 23053	1μF 20% 63V		
R258	4822 051 30008	0Ω jumper	R5E1	4822 051 30008	0Ω jumper	C340	4822 126 13751	47nF 10% 63V		
R259	4822 051 30008	0Ω jumper	R601	4822 051 30759	75Ω 5% 0,062W	C341	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP		
R401	4822 051 30102	1k 5% 0,062W	R602	4822 051 30759	75Ω 5% 0,062W	C342	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)		
R402	4822 051 30008	0Ω jumper	R603	4822 051 30759	75Ω 5% 0,062W	C343	4822 126 13751	47nF 10% 63V		
R403	4822 051 30008	0Ω jumper	R604	4822 051 30759	75Ω 5% 0,062W	C345	9965 000 18598	0.056μF 50V 10% B(5YP) 2012 R/TP		
R404	4822 051 30008	0Ω jumper	R605	4822 051 30759	75Ω 5% 0,062W	C346	4822 124 23056	47μF 20% 16V		
R405	4822 051 30008	0Ω jumper	R606	4822 051 30759	75Ω 5% 0,062W	C347	4822 124 23053	1μF 20% 63V		
R407	4822 051 30562	5k6 5% 0,063W 0603 RC21 RST SM	R607	4822 051 30008	0Ω jumper	C348	4822 124 23053	1μF 20% 63V		
R408	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R	R608	4822 051 30008	0Ω jumper	C349	4822 124 23056	47μF 20% 16V		
R409	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R	R609	4822 051 30008	0Ω jumper	C350	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)		
R410	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R	R610	4822 051 30008	0Ω jumper	C351	9965 000 18594	220P 50V J 2.0X1.25 R/TP		
R411	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R	R611	4822 051 30008	0Ω jumper	C353	4822 124 23053	1μF 20% 63V		
R412	4822 117 12902	8k2 1% 0.063W 0603	X501	9965 000 18582	HC-49/S BUBANG 27MHz 20PPM 1	C355	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)		
R413	4822 117 12903	1k8 1% 0.063W 0603	IC201	9965 000 18567	MT1336E MEDIATEK INCORPORATION	C356	4822 124 23053	1μF 20% 63V		
R414	4822 117 12903	1k8 1% 0.063W 0603	IC202	9965 000 18568	LA6560-A-TE-L SANYO HSOP-36R R	C357	4822 124 23053	1μF 20% 63V		
R415	4822 117 12902	8k2 1% 0.063W 0603	IC401	9965 000 11006	CS4391 TSSOP20	C358	4822 126 13694	68pF 1% 63V		
R416	4822 117 12903	1k8 1% 0.063W 0603	IC402	9965 000 04714	IC NJM4580M	C359	4822 124 23053	1μF 20% 63V		
R417	4822 051 30472	4k7 5% 0,062W	IC501	9965 000 18569	MT1379DE MEDIATEK INCORPORATIO	C361	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP		
R418	4822 117 12902	8k2 1% 0.063W 0603	IC502	9965 000 18570	M12L16161A-7T-TI ELITE MEMORY	C362	4822 124 23056	47μF 20% 16V		
R419	4822 117 12902	8k2 1% 0.063W 0603	IC503	9965 000 18570	M12L16161A-7T-TI ELITE MEMORY	C363	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R420	4822 117 12903	1k8 1% 0.063W 0603	IC505	9965 000 18571	S524A40X21-SCT0 SOP8 TP EEPROM	C366	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP		
R421	4822 051 30331	330Ω 5% 0,062W	IC510	9965 000 18554	MM74HCT244SJ 20P SOIC TP 3-STA	C367	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)		
R422	4822 051 30331	330Ω 5% 0,062W	IC5C1	9965 000 18573	MM1623XFBE MITSUMI 28PIN SOP R	C368	9965 000 18599	8200P 50V K B 2.0X1.2 R/TP		
R423	4822 051 30102	1k 5% 0,062W	ZD501	4822 130 83206	BZX79-B5V6	C369	4822 126 13221	100pF 2% 63V		
R424	4822 051 30102	1k 5% 0,062W						C370	4822 126 13695	82pF 1% 63V
R425	4822 051 30102	1k 5% 0,062W						C371	4822 126 13695	82pF 1% 63V
R426	4822 051 30102	1k 5% 0,062W						C372	4822 126 13695	82pF 1% 63V
R427	4822 051 30102	1k 5% 0,062W						C374	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R501	4822 117 12902	8k2 1% 0.063W 0603						C375	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R502	9965 000 18576	750k Ω 1/16 W 5% 1608 R/TP						C376	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R503	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D						C377	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R504	4822 051 30008	0Ω jumper						C500	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
R505	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D						C501	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
R506	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D						C502	4822 124 23056	47μF 20% 16V
R507	4822 051 30152	1k5 5% 0,062W						C503	4822 124 12052	220μF 20% 6,3V
R508	4822 117 13632	100k 1% 0603 0.62W						C504	4822 124 12052	220μF 20% 6,3V
R509	4822 051 30008	0Ω jumper						C505	4822 124 23056	47μF 20% 16V
R510	4822 051 30008	0Ω jumper						C506	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP
R511	4822 051 30183	18k 5% 0,062W								
R512	4822 117 13632	100k 1% 0603 0.62W								
R513	4822 051 30008	0Ω jumper								
R515	4822 051 30339	33Ω 5% 0,062W								
R516	4822 051 30339	33Ω 5% 0,062W								
R517	4822 051 30339	33Ω 5% 0,062W								
R518	4822 051 30339	33Ω 5% 0,062W								
R519	4822 051 30339	33Ω 5% 0,062W								
R520	4822 051 30339	33Ω 5% 0,062W								
R521	4822 051 30339	33Ω 5% 0,062W								
R522	4822 051 30339	33Ω 5% 0,062W								
R523	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D								
R524	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D								
R525	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D								
R526	4822 051 30101	100Ω 5% 0,062W								

C508	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C712	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C884	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C509	9965 000 18601	22P 50V J 2.0X1.2 R/TP	C713	9965 000 18614	56P 50V J 2.0X1.25 R/TP	C885	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C511	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C714	9965 000 18614	56P 50V J 2.0X1.25 R/TP	C886	9965 000 18623	470μF SRA,SS 16V 20% FM5 TP 5
C512	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C715	9965 000 18615	5P 50V C COG 2.0X1.2 R/TP	C889	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C513	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C716	2238 861 18109	50V 10P PM1 R	C890	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C514	9965 000 18603	12pF 50V 5% 2012 R/TP	C717	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C891	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C515	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C718	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C892	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C516	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP	C719	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C908	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C518	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C720	9965 000 18617	1500pF 50V 10% B(5YP) 2012 R/T	C910	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C519	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C721	9965 000 18618	3900P 50V K 2.0X1.2 R/TP	C912	9965 000 18624	1000P 50V K B TA26
C520	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C722	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C915	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C521	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C723	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C916	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C523	9965 000 18590	2.2μF SRA,SS 50V 20% FM5 TP 5	C726	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C921	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C524	4822 124 23056	47μF 20% 16V	C727	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C931	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
C525	9965 000 18606	1μF 16V Z (F) 2012 R/TP	C728	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C932	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
C526	9965 000 18607	47μF SRA,SS 35V M FM5 TP 5	C729	9965 000 18619	3.3μF SRA,SS 50V 20% FM5 TP 5	C933	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5
C527	9965 000 18594	220P 50V J 2.0X1.25 R/TP	C730	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C938	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C533	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C731	9965 000 18620	9pF 50V 0.5 pF 2012 R/TP			
C534	4822 124 40769	4.7μF 20% 100V	C732	4822 124 11947	10μF 20% 16V			
C535	9965 000 18606	1μF 16V Z (F) 2012 R/TP	C751	9965 000 18616	47M SRA 6.3V M FM5 TP(5)			
C543	9965 000 18608	2200P 50V K B 2.0X1.25 R/TP	C752	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP			
C544	9965 000 18609	0.047μF 50V Z (F) 2012 R/TP	C755	4822 124 11947	10μF 20% 16V			
C545	9965 000 18610	0.033μF 25V K B 2.0X1.25 R/TP	C7M1	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP			
C546	9965 000 18607	47μF SRA,SS 35V M FM5 TP 5	C7M2	9965 000 18616	47M SRA 6.3V M FM5 TP(5)			
C547	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C7M6	9965 000 18611	27P 50V J COG 2.0X1.2 R/TP			
C551	9965 000 18610	0.033μF 25V K B 2.0X1.25 R/TP	C802	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C552	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C803	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C561	4822 124 12052	220μF 20% 6.3V	C804	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C564	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C805	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C567	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C806	4822 124 11947	10μF 20% 16V			
C570	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C807	9965 000 18588	0.47M SRA 50V M FM5 TP(5)			
C571	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C808	4822 124 23053	1μF 20% 63V			
C575	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C809	4822 124 23053	1μF 20% 63V			
C576	9965 000 18611	27P 50V J COG 2.0X1.2 R/TP	C810	9965 000 18606	1μF 16V Z (F) 2012 R/TP			
C577	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP	C811	9965 000 18606	1μF 16V Z (F) 2012 R/TP			
C578	9965 000 18608	2200P 50V K B 2.0X1.25 R/TP	C812	4822 124 11947	10μF 20% 16V			
C581	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C813	9965 000 18622	6800pF 50V 10% B(5YP) 2012 R/T			
C582	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C814	4822 124 23056	47μF 20% 16V			
C583	9965 000 18606	1μF 16V Z (F) 2012 R/TP	C815	4822 124 11947	10μF 20% 16V			
C596	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C816	4822 124 11947	10μF 20% 16V			
C5A3	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C817	4822 124 11947	10μF 20% 16V			
C5A4	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C818	4822 124 23056	47μF 20% 16V			
C5A5	4822 124 23053	1μF 20% 63V	C819	9965 000 18622	6800pF 50V 10% B(5YP) 2012 R/T			
C5K1	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)	C820	4822 124 11947	10μF 20% 16V			
C5L1	9965 000 18606	1μF 16V Z (F) 2012 R/TP	C821	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP			
C5L6	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C822	4822 124 23056	47μF 20% 16V			
C5P1	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C823	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C5P2	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C824	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP			
C5S1	9965 000 18612	43pF 50V J 2012 R/TP	C825	4822 124 23056	47μF 20% 16V			
C5S3	9965 000 18597	0.022μF 50V K B 2.0X1.2 R/TP	C826	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP			
C706	9965 000 18613	33P 50V J C 2.0X1.2 R/TP	C828	4822 124 23053	1μF 20% 63V			
C707	4822 126 13694	68pF 1% 63V	C829	4822 124 23053	1μF 20% 63V			
C708	9965 000 18600	470μF SR,SV 6.3V 20% FM5 TP 5	C834	9965 000 18623	470μF SRA,SS 16V 20% FM5 TP 5			
C709	9965 000 18605	0.01μF 50V K B 2.0X1.25 R/TP	C855	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
C710	4822 124 40769	4.7μF 20% 100V	C856	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
			C857	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
			C859	4822 124 40804	22μF 20% 63V			
			C860	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
			C861	4822 124 11947	10μF 20% 16V			
			C863	4822 124 23056	47μF 20% 16V			
			C864	4822 124 23053	1μF 20% 63V			
			C869	4822 124 11947	10μF 20% 16V			
			C870	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			
			C871	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)			

Q308	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q309	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q501	4822 130 10491	KTC3875S-GR-T1(ALG)
Q502	4822 130 10491	KTC3875S-GR-T1(ALG)
Q503	4822 130 63766	KTA1273Y(966Y)
Q504	4822 130 10491	KTC3875S-GR-T1(ALG)
Q514	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q515	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q5S1	4822 130 10491	KTC3875S-GR-T1(ALG)
Q705	4822 130 63766	KTA1273Y(966Y)
Q706	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q801	4822 130 10491	KTC3875S-GR-T1(ALG)
Q802	4822 130 10491	KTC3875S-GR-T1(ALG)
Q804	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q901	4822 130 10491	KTC3875S-GR-T1(ALG)
Q902	4822 130 10491	KTC3875S-GR-T1(ALG)
Q903	4822 130 10491	KTC3875S-GR-T1(ALG)






R173	4822 051 20472	4k7 5% 0,1W
R301	4822 117 11148	56k 1% 0,1W
R302	4822 117 10833	10k 1% 0,1W
R303	4822 117 10965	18k 1% 0,1W
R304	4822 117 10833	10k 1% 0,1W
R305	4822 117 10833	10k 1% 0,1W
R306	4822 051 20223	22k 5% 0,1W
R307	4822 117 11449	2k2 5% 0,1W 0805
R308	4822 051 20472	4k7 5% 0,1W
R309	4822 051 20102	1k 5% 0,1W
R310	4822 051 20472	4k7 5% 0,1W
R311	4822 051 20102	1k 5% 0,1W
R312	4822 051 20683	68k 5% 0,1W
R313	4822 051 20228	20k2 5% 0,1W
R314	4822 051 20102	1k 5% 0,1W
R315	4822 051 20479	47Ω 5% 0,1W
R316	4822 117 11373	100Ω 1% RC12H 0805
R317	4822 051 20562	5k6 5% 0,1W 0805
R318	4822 051 20392	3k9 5% 0,1W
R319	4822 051 20561	560Ω 5% 0,1W
R320	4822 117 10353	150Ω 1% 0,1W
R321	4822 051 20122	1k2 5% 0,1W
R322	4822 051 20102	1k 5% 0,1W
R324	4822 051 20334	330k 5% 0,1W
R325	4822 051 20471	470Ω 5% 0,1W
R326	4822 117 11383	12k 1% 0,1W
R327	4822 051 20562	5k6 5% 0,1W 0805
R328	4822 117 11504	270Ω 1% 0,1W
R329	4822 117 11383	12k 1% 0,1W
R330	4822 117 10833	10k 1% 0,1W
R331	4822 051 20472	4k7 5% 0,1W
R332	4822 117 10834	47k 1% 0,1W
R333	4822 051 20392	3k9 5% 0,1W
R334	4822 117 12955	2k7 1% 0,1W 0805
R335	4822 117 11507	6k8 1% 0,1W
R336	4822 117 10837	100k 1% 0,1W
R337	4822 117 11449	2k2 5% 0,1W 0805
R338	4822 117 11504	270Ω 1% 0,1W
R339	4822 117 11504	270Ω 1% 0,1W
R340	4822 117 10965	18k 1% 0,1W
R342	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R343	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R344	4822 051 20471	470Ω 5% 0,1W
R345	4822 051 20471	470Ω 5% 0,1W
R346	4822 117 11373	100Ω 1% RC12H 0805
R347	4822 117 11373	100Ω 1% RC12H 0805
R348	4822 051 20155	1M5 5% 0,1W
R349	4822 051 20182	1k8 5% 0,1W
R350	4822 117 10833	10k 1% 0,1W
R351	4822 051 20824	820k 5% 0,1W
R352	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R353	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R3A2	4822 051 20008	0Ω jumper . (0805)
R501	4822 117 11373	100Ω 1% RC12H 0805
R502	4822 117 11373	100Ω 1% RC12H 0805
R503	4822 051 20472	4k7 5% 0,1W
R504	4822 051 20102	1k 5% 0,1W
R505	4822 051 20102	1k 5% 0,1W
R506	4822 051 20008	0Ω jumper . (0805)
R508	4822 051 20332	3k3 5% 0,1W
R509	4822 051 20182	1k8 5% 0,1W
R510	4822 117 11449	2k2 5% 0,1W 0805
R511	4822 051 20102	1k 5% 0,1W

R512	4822 051 20102	1k 5% 0,1W
R513	4822 051 20102	1k 5% 0,1W
R514	4822 051 20124	120k 5% 0,1W
R515	4822 117 11504	270Ω 1% 0,1W
R516	4822 051 20474	470k 5% 0,1W
R517	4822 051 20471	470Ω 5% 0,1W
R518	4822 051 20102	1k 5% 0,1W
R520	4822 051 20392	3k9 5% 0,1W
R521	4822 051 20472	4k7 5% 0,1W
R522	4822 051 20102	1k 5% 0,1W
R523	4822 117 10833	10k 1% 0,1W
R524	4822 051 20229	22Ω 5% 0,1W
R525	4822 051 20562	5k6 5% 0,1W 0805
R526	4822 051 20562	5k6 5% 0,1W 0805
R527	4822 051 20102	1k 5% 0,1W
R528	4822 051 20472	4k7 5% 0,1W
R529	4822 117 10833	10k 1% 0,1W
R530	4822 051 20472	4k7 5% 0,1W
R531	4822 117 10833	10k 1% 0,1W
R535	4822 051 20474	470k 5% 0,1W
R542	4822 117 11449	2k2 5% 0,1W 0805
R543	4822 117 11373	100Ω 1% RC12H 0805
R544	4822 051 20472	4k7 5% 0,1W
R545	4822 051 20008	0Ω jumper . (0805)
R546	4822 051 20562	5k6 5% 0,1W 0805
R547	4822 117 11383	12k 1% 0,1W
R548	4822 117 10837	100k 1% 0,1W
R550	4822 117 11503	220Ω 1% 0,1W
R553	4822 117 11503	220Ω 1% 0,1W
R554	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R555	4822 117 11503	220Ω 1% 0,1W
R556	4822 051 20223	22k 5% 0,1W
R557	4822 051 20273	27k 5% 0,1W
R558	4822 051 20223	22k 5% 0,1W
R559	4822 051 20472	4k7 5% 0,1W
R560	4822 051 20472	4k7 5% 0,1W
R561	4822 051 20561	560Ω 5% 0,1W
R562	4822 051 20561	560Ω 5% 0,1W
R563	4822 051 20562	5k6 5% 0,1W 0805
R564	4822 051 20273	27k 5% 0,1W
R566	4822 051 20472	4k7 5% 0,1W
R567	4822 117 10833	10k 1% 0,1W
R568	4822 051 20683	68k 5% 0,1W
R569	4822 051 20105	1M 5% 0,1W
R570	4822 051 20472	4k7 5% 0,1W
R575	4822 051 20472	4k7 5% 0,1W
R576	4822 051 20472	4k7 5% 0,1W
R577	4822 051 20472	4k7 5% 0,1W
R578	4822 051 20472	4k7 5% 0,1W
R579	4822 117 11148	56k 1% 0,1W
R582	4822 117 11373	100Ω 1% RC12H 0805
R583	4822 117 10833	10k 1% 0,1W
R589	4822 051 20105	1M 5% 0,1W
R591	4822 117 10837	100k 1% 0,1W
R5A2	4822 117 10833	10k 1% 0,1W
R5A3	4822 117 10833	10k 1% 0,1W
R5A5	4822 051 20474	470k 5% 0,1W
R5B3	4822 051 20102	1k 5% 0,1W
R5B4	4822 051 20102	1k 5% 0,1W
R5B5	4822 117 11373	100Ω 1% RC12H 0805
R5C1	4822 051 20102	1k 5% 0,1W
R5C5	4822 051 20102	1k 5% 0,1W
R5C6	4822 051 20102	1k 5% 0,1W
R5C7	4822 051 20102	1k 5% 0,1W
R5C9	4822 117 10833	10k 1% 0,1W
R5K6	4822 117 11373	100Ω 1% RC12H 0805
R5K7	4822 117 11373	100Ω 1% RC12H 0805
R5K8	4822 117 11373	100Ω 1% RC12H 0805
R5L1	4822 051 20008	0Ω jumper . (0805)
R5P2	4822 117 10833	10k 1% 0,1W
R5P3	4822 117 10833	10k 1% 0,1W
R5R8	4822 051 20102	1k 5% 0,1W
R5S1	4822 051 20562	5k6 5% 0,1W 0805
R5S2	9965 000 18652	330 Ω 1/6 W 5% TA26
R705	4822 117 11503	220Ω 1% 0,1W
R706	4822 117 11503	220Ω 1% 0,1W
R707	4822 051 20102	1k 5% 0,1W
R710	4822 051 20332	3k3 5% 0,1W
R711	4822 051 20332	3k3 5% 0,1W
R712	4822 051 20472	4k7 5% 0,1W
R713	4822 051 20562	5k6 5% 0,1W 0805
R714	4822 051 20008	0Ω jumper . (0805)
R715	4822 117 11449	2k2 5% 0,1W 0805
R716	4822 051 20102	1k 5% 0,1W
R717	4822 117 11373	100Ω 1% RC12H 0805
R718	4822 117 11373	100Ω 1% RC12H 0805
R719	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R7M1	4822 051 20102	1k 5% 0,1W
R7M2	4822 117 11503	220Ω 1% 0,1W
R7M4	4822 051 20102	1k 5% 0,1W
R7M5	4822 117 11503	220Ω 1% 0,1W
R801	4822 051 20335	3M3 5% 0,1W

R802	4822 051 20333	33k 5% 0,1W
R803	4822 117 12955	2k7 1% 0,1W 0805
R804	4822 051 20393	39k 5% 0,1W
R805	4822 117 12955	2k7 1% 0,1W 0805
R806	4822 051 20333	33k 5% 0,1W
R807	4822 051 20471	470Ω 5% 0,1W
R808	4822 117 10833	10k 1% 0,1W
R809	4822 117 10965	18k 1% 0,1W
R810	4822 117 11373	100Ω 1% RC12H 0805
R811	4822 117 11373	100Ω 1% RC12H 0805
R812	4822 051 20102	1k 5% 0,1W
R821	4822 117 11449	2k2 5% 0,1W 0805
R822	4822 117 10837	100k 1% 0,1W
R823	4822 117 11449	2k2 5% 0,1W 0805
R824	4822 117 10837	100k 1% 0,1W
R825	4822 051 20561	560Ω 5% 0,1W
R826	4822 051 20561	560Ω 5% 0,1W
R835	4822 117 11927	75Ω 1% 0,1W
R841	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R842	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R850	4822 117 11373	100Ω 1% RC12H 0805
R851	4822 117 11373	100Ω 1% RC12H 0805
R861	4822 051 20472	4k7 5% 0,1W
R862	4822 051 20472	4k7 5% 0,1W
R863	4822 051 20472	4k7 5% 0,1W
R864	4822 051 20472	4k7 5% 0,1W
R874	4822 117 11927	75Ω 1% 0,1W
R875	4822 051 20472	4k7 5% 0,1W
R876	4822 051 20472	4k7 5% 0,1W
R890	4822 051 20561	560Ω 5% 0,1W
R902	4822 117 10833	10k 1% 0,1W
R903	4822 117 11927	75Ω 1% 0,1W
R904	4822 051 20561	560Ω 5% 0,1W
R905	4822 051 20561	560Ω 5% 0,1W
R906	4822 051 20561	560Ω 5% 0,1W
R907	4822 051 20561	560Ω 5% 0,1W
R908	4822 051 20008	0Ω jumper . (0805)
R909	4822 051 20008	0Ω jumper . (0805)
R910	4822 051 20008	0Ω jumper . (0805)
R911	4822 051 20102	1k 5% 0,1W
R913	4822 117 11927	75Ω 1% 0,1W
R914	4822 117 11927	75Ω 1% 0,1W
R919	4822 051 20472	4k7 5% 0,1W
R920	4822 117 10361	680Ω 1% 0,1W
R927	4822 051 20102	1k 5% 0,1W
R928	4822 051 20008	0Ω jumper . (0805)
R929	4822 051 20008	0Ω jumper . (0805)
R930	4822 051 20102	1k 5% 0,1W
R931	4822 117 11503	220Ω 1% 0,1W
R932	4822 117 11503	220Ω 1% 0,1W
R933	4822 117 10837	100k 1% 0,1W
R934	4822 117 10837	100k 1% 0,1W
W714	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W901	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W902	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W903	9965 000 18656	1.0M K 2.3X3.4 L5 TP
X301	9965 000 18657	HC49U BUBANG 4- 433709MHz 15P
X501	9965 000 18658	HC-49S BUBANG 10MHz +/- 30 PPM
X502	9965 000 18659	C-001R SEIKO EPSON 32.768 KHZ
X751	9965 000 18660	49U BUBANG 18432000HZ 30PPM 16



CS501	9965 000 18625	MPU11810MLB0 MIC DC 5V 1MA D-3
ES501	9965 000 18626	END (DI)
ES502	9965 000 18626	END (DI)
FL301	9965 000 18628	BIAC OSC,1CHIP 5V(KS- 75M) KWAN
IC301	9965 000 18630	LA71750EM SANYO 100PIN QFP TRA
IC501	9965 000 18631	HD6432197SA26F HITACHI 112PIN
IC503	9965 000 18632	CAT24W16P 8P DIP ST 16K SERIAL
IC504	9965 000 18633	KIA7031P 3P 3.1V RESET(TAPING)
IC505	9965 000 18634	KIA7042P
IC751	9965 000 14760	AUD UP MSP3417G-QG-B8- V3
IC751	9965 000 19458	MSP3417D-QG QFP44 BK NICAM+A2
IC801	9352 631 46557	IC SM TDA9605H/N2
IC802	9965 000 18635	MM1443XJ SSOP-34 TP CANAL S/W

			
LD501	9965 000 18649	LED(DI-CKD)LOCAL	
MS501	9965 000 18650	NON 5V 1MA VERTICAL -G	
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RS501	9965 000 18653	SG-260 KODENSHI D33 REEL SENSO	
RS502	9965 000 18653	SG-260 KODENSHI D33 REEL SENSO	
SC901	9965 000 19459	DSAM-0139 DOOWON 2F- 21P(BK-BK)	
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TU701	9965 000 19460	TADC-U401D(UK,LGIT) LG INOTEK	

MECHANICAL DVD755VR /14

Various

250	9965 000 18503	CASE
260	9965 000 18504	FRAME
285	9965 000 18506	DOOR ASSEMBLY
300	9965 000 18507	POWER CORD
330	9965 000 18486	
801	9965 000 19465	INSTRUCTION ASSEMBLY
900	9965 000 18509	REMOTE CONTROLLER ASSEMBLY

FRONT PWB DVD755VR /14

Various

283	9965 000 18512	DOOR.CASE
284	4822 492 42785	SPRING DOOR
A43	9965 000 19454	PANEL ASSEMBLY,FRONT[NORM AL PA

SUB PWB DVD755VR /14

A46A	9965 000 19467	485500D7160F30 000000 00003000
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-II-

C201	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C202	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C203	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C206	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C207	4822 124 23056	47μF 20% 16V
C208	4822 124 23056	47μF 20% 16V
C211	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C212	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C213	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C214	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C231	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C232	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C233	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C234	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C239	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C240	3198 017 31530	0603 50V 15nF COL R
C241	4822 124 23056	47μF 20% 16V
C243	4822 126 12223	560pF 50V
C244	4822 126 12223	560pF 50V
C245	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C251	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C252	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C253	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C254	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C255	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C257	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C258	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C259	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C260	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C261	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C262	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C263	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C264	3198 017 31530	0603 50V 15nF COL R
C265	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C266	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C267	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C268	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP

C269	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C270	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C271	9965 000 18559	390pF 50V J 1508 R/TP
C272	9965 000 18559	390pF 50V J 1508 R/TP
C273	9965 000 18560	0.033μF 50V K (X) 1508 R/TP
C274	9965 000 18561	470pF 50V J 1508 R/TP
C276	9965 000 13794	SMD 10pF 5% 50V 0603
C277	3198 017 31530	0603 50V 15nF COL R
C278	4822 126 11669	27pF
C279	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C280	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C281	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C282	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C283	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C291	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C292	4822 124 23056	47μF 20% 16V
C293	4822 124 23056	47μF 20% 16V
C295	4822 124 11947	10μF 20% 16V
C296	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C297	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C298	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C401	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C402	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C403	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C404	9965 000 18558	1μF 10V Z (F) 1508 R/TP
C405	4822 124 23056	47μF 20% 16V
C406	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C407	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C408	4822 124 40804	22μF 20% 63V
C409	4822 124 40804	22μF 20% 63V
C410	4822 124 40804	22μF 20% 63V
C411	4822 124 40804	22μF 20% 63V
C412	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C413	5322 126 11578	1nF 10% 50V 0603
C414	5322 126 11578	1nF 10% 50V 0603
C415	9965 000 18562	270pF 50V 5% 1608 R/TP
C416	9965 000 18562	270pF 50V 5% 1608 R/TP
C417	9965 000 18562	270pF 50V 5% 1608 R/TP
C418	9965 000 18562	270pF 50V 5% 1608 R/TP
C419	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C420	9965 000 18557	100μF SRA 16V M FM5 TP(5)
C421	9965 000 18563	3900pF 50V K Z5U(E) 1608 R/TP
C422	9965 000 18563	3900pF 50V K Z5U(E) 1608 R/TP
C423	4822 124 40804	22μF 20% 63V
C424	4822 124 40804	22μF 20% 63V
C425	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C426	4822 124 12052	220μF 20% 6,3V
C502	5322 126 11583	10nF 10% 50V 0603
C503	5322 126 11583	10nF 10% 50V 0603
C504	5322 126 11583	10nF 10% 50V 0603
C505	5322 126 11583	10nF 10% 50V 0603
C506	9965 000 11253	CHIP 100P/50V (J) CH 0603
C507	5322 126 11583	10nF 10% 50V 0603
C508	9965 000 18564	2.2μF 16V 80%,-20% (F) 3216
C509	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C510	9965 000 11253	CHIP 100P/50V (J) CH 0603
C511	4822 124 23056	47μF 20% 16V
C513	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C514	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C515	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C516	9965 000 18564	2.2μF 16V 80%,-20% (F) 3216
C517	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C518	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C519	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C520	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C521	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C522	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C523	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C524	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C525	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C526	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C527	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C528	4822 124 23056	47μF 20% 16V
C530	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C531	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C532	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C533	4822 126 14507	18pF 5% 50V 0603
C534	2222 867 15339	0603 50V 33P 5%
C535	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C536	5322 126 11578	1nF 10% 50V 0603
C537	5322 126 11578	1nF 10% 50V 0603
C538	5322 126 11578	1nF 10% 50V 0603
C539	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C540	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C541	4822 124 11947	10μF 20% 16V

C542	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C543	4822 124 11947	10μF 20% 16V
C544	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C545	4822 124 11947	10μF 20% 16V
C554	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C555	4822 124 11947	10μF 20% 16V
C556	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C557	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C558	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C559	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C560	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C561	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C563	4822 124 12052	220μF 20% 6,3V
C564	4822 124 12052	220μF 20% 6,3V
C567	4822 126 13883	220pF 5% 50V
C568	4822 126 13883	220pF 5% 50V
C569	4822 126 13883	220pF 5% 50V
C575	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C576	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C577	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C578	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C579	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C580	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C581	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C582	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C583	4822 124 12052	220μF 20% 6,3V
C584	4822 126 11669	27pF
C585	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C586	9965 000 11253	CHIP 100P/50V (J) CH 0603
C587	9965 000 11253	CHIP 100P/50V (J) CH 0603
C589	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C590	4822 124 12052	220μF 20% 6,3V
C591	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C592	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C597	4822 126 11785	0603 50V 47P 5%
C5A1	4822 124 11947	10μF 20% 16V
C5A2	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C5C1	4822 124 23056	47μF 20% 16V
C5C2	4822 124 23053	1μF 20% 63V
C5C4	4822 124 23053	1μF 20% 63V
C5C5	4822 124 23053	1μF 20% 63V
C5C6	4822 124 23053	1μF 20% 63V
C5C7	4822 124 23053	1μF 20% 63V
C5C8	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C5C9	4822 124 40804	22μF 20% 63V
C5E0	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C601	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C602	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C603	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C604	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C605	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP
C606	9965 000 18556	0.1μF 50V Z (F) 1508 R/TP

→I←

D401	4822 130 80522	DAP202U
D601	9965 000 18565	RL104F TP RECTRON NON 400V 1A
F501	9965 000 18566	LFA20-2A1E473MT MITSUBISHI MAT

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L201	9965 000 18574	10μH 5% 4X5 TR5
L202	9965 000 18575	HB-1M2012-102JT CERATECH TP
L203	9965 000 18574	10μH 5% 4X5 TR5
L204	9965 000 18575	HB-1M2012-102JT CERATECH TP
L231	9965 000 18575	HB-1M2012-102JT CERATECH TP
L251	9965 000 18575	HB-1M2012-102JT CERATECH TP
L261	9965 000 18575	HB-1M2012-102JT CERATECH TP
L262	9965 000 18575	HB-1M2012-102JT CERATECH TP
L264	9965 000 18575	HB-1M2012-102JT CERATECH TP
L265	9965 000 18575	HB-1M2012-102JT CERATECH TP
L401	9965 000 18575	HB-1M2012-102JT CERATECH TP
L402	9965 000 18575	HB-1M2012-102JT CERATECH TP
L403	9965 000 18575	HB-1M2012-102JT CERATECH TP
L501	9965 000 18575	HB-1M2012-102JT CERATECH TP
L502	9965 000 18575	HB-1M2012-102JT CERATECH TP

L503	9965 000 18575	HB-1M2012-102JT CERATECH TP
L504	9965 000 18575	HB-1M2012-102JT CERATECH TP
L505	9965 000 18575	HB-1M2012-102JT CERATECH TP
L506	9965 000 18575	HB-1M2012-102JT CERATECH TP
L507	9965 000 18575	HB-1M2012-102JT CERATECH TP
L508	9965 000 18575	HB-1M2012-102JT CERATECH TP
L5C1	9965 000 18575	HB-1M2012-102JT CERATECH TP
L601	9965 000 18575	HB-1M2012-102JT CERATECH TP
L602	9965 000 18575	HB-1M2012-102JT CERATECH TP
L613	9965 000 18575	HB-1M2012-102JT CERATECH TP



Q201	4822 130 10491	KTC3875S-GR-T1(ALG)
Q202	3141 018 51690	TRA SM 2SK3018
Q203	3141 018 51690	TRA SM 2SK3018
Q204	4822 130 61269	2SA1037KQ
Q205	4822 130 61269	2SA1037KQ
Q401	4822 130 61269	2SA1037KQ
Q404	9965 000 11427	KRA103S (SOP)
Q405	9965 000 11427	KRA103S (SOP)
Q501	4822 130 10491	KTC3875S-GR-T1(ALG)



R201	4822 051 30103	10k 5% 0,062W
R202	4822 117 13632	100k 1% 0603 0.62W
R203	4822 051 30103	10k 5% 0,062W
R204	4822 117 13632	100k 1% 0603 0.62W
R205	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R
R206	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R
R207	4822 051 30008	0Ω jumper
R208	4822 051 30008	0Ω jumper
R209	4822 051 30008	0Ω jumper
R210	4822 051 30008	0Ω jumper
R211	4822 117 13613	202 5% 0603
R212	9965 000 18576	750k Ω 1/16 W 5% 1608 R/ TP
R213	9965 000 18577	390k Ω 1 / 16 W 1608 5.00% D
R214	9965 000 18576	750k Ω 1/16 W 5% 1608 R/ TP
R215	9965 000 18577	390k Ω 1 / 16 W 1608 5.00% D
R216	9965 000 18578	1 Ω 1 / 16 W 1608 5.00% D
R217	4822 117 13613	202 5% 0603
R218	4822 117 13613	202 5% 0603
R220	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R
R221	2322 702 60279	RST SM 0603 RC21 27Ω PM5 R
R231	4822 051 30222	2k2 5% 0,062W
R232	4822 051 30222	2k2 5% 0,062W
R233	4822 117 13613	202 5% 0603
R234	4822 117 13613	202 5% 0603
R235	4822 051 30103	10k 5% 0,062W
R236	4822 051 30153	15k 5% 0,062W
R237	4822 051 30273	27k 5% 0,062W
R238	4822 051 30103	10k 5% 0,062W
R239	4822 051 30103	10k 5% 0,062W
R240	4822 051 30103	10k 5% 0,062W
R241	4822 051 30103	10k 5% 0,062W
R242	4822 051 30273	27k 5% 0,062W
R243	4822 051 30103	10k 5% 0,062W
R244	4822 051 30153	15k 5% 0,062W
R245	4822 051 30103	10k 5% 0,062W
R246	4822 051 30103	10k 5% 0,062W
R251	4822 051 30333	33k 5% 0,062W
R252	4822 117 13632	100k 1% 0603 0.62W
R253	4822 051 30273	27k 5% 0,062W
R254	4822 051 30008	0Ω jumper
R255	4822 051 30008	0Ω jumper
R256	4822 051 30103	10k 5% 0,062W
R257	4822 051 30103	10k 5% 0,062W
R258	4822 051 30008	0Ω jumper
R259	4822 051 30008	0Ω jumper
R401	4822 051 30102	1k 5% 0,062W
R402	4822 051 30008	0Ω jumper
R403	4822 051 30008	0Ω jumper
R404	4822 051 30008	0Ω jumper

R405	4822 051 30008	0Ω jumper
R407	4822 051 30562	5k6 5% 0,063W 0603 RC21 RST SM
R408	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R
R409	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R
R410	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R
R411	2322 702 60752	RST SM 0603 RC21 7k5 PM5 R
R412	4822 117 12902	8k2 1% 0.063W 0603
R413	4822 117 12903	1k8 1% 0.063W 0603
R414	4822 117 12903	1k8 1% 0.063W 0603
R415	4822 117 12902	8k2 1% 0.063W 0603
R416	4822 117 12903	1k8 1% 0.063W 0603
R417	4822 051 30472	4k7 5% 0,062W
R418	4822 117 12902	8k2 1% 0.063W 0603
R419	4822 117 12902	8k2 1% 0.063W 0603
R420	4822 117 12903	1k8 1% 0.063W 0603
R421	4822 051 30331	330Ω 5% 0,062W
R422	4822 051 30331	330Ω 5% 0,062W
R423	4822 051 30102	1k 5% 0,062W
R424	4822 051 30102	1k 5% 0,062W
R425	4822 051 30102	1k 5% 0,062W
R426	4822 051 30102	1k 5% 0,062W
R427	4822 051 30102	1k 5% 0,062W
R501	4822 117 12902	8k2 1% 0.063W 0603
R502	9965 000 18576	750k Ω 1/16 W 5% 1608 R/ TP
R503	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D
R504	4822 051 30008	0Ω jumper
R505	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D
R506	9965 000 18579	4.7 Ω 1 / 16 W 1608 5.00% D
R507	4822 051 30152	1k5 5% 0,062W
R508	4822 117 13632	100k 1% 0603 0.62W
R509	4822 051 30008	0Ω jumper
R510	4822 051 30008	0Ω jumper
R511	4822 051 30183	18k 5% 0,062W
R512	4822 117 13632	100k 1% 0603 0.62W
R513	4822 051 30008	0Ω jumper
R515	4822 051 30339	33Ω 5% 0,062W
R516	4822 051 30339	33Ω 5% 0,062W
R517	4822 051 30339	33Ω 5% 0,062W
R518	4822 051 30339	33Ω 5% 0,062W
R519	4822 051 30339	33Ω 5% 0,062W
R520	4822 051 30339	33Ω 5% 0,062W
R521	4822 051 30339	33Ω 5% 0,062W
R522	4822 051 30339	33Ω 5% 0,062W
R523	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D
R524	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D
R525	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D
R526	4822 051 30101	100Ω 5% 0,062W
R527	4822 051 30472	4k7 5% 0,062W
R528	9965 000 18580	1.2k Ω 1 / 16 W 1608 5.00% D
R529	4822 051 30008	0Ω jumper
R534	4822 051 30102	1k 5% 0,062W
R535	4822 051 30102	1k 5% 0,062W
R564	4822 051 30183	18k 5% 0,062W
R565	4822 051 30183	18k 5% 0,062W
R566	4822 051 30103	10k 5% 0,062W
R567	4822 051 30103	10k 5% 0,062W
R570	4822 051 30008	0Ω jumper
R573	4822 051 30221	220Ω 5% 0,062W
R574	4822 051 30221	220Ω 5% 0,062W
R577	4822 051 30471	470Ω 5% 0,062W
R578	4822 051 30101	100Ω 5% 0,062W
R579	4822 051 30102	1k 5% 0,062W
R580	4822 051 30102	1k 5% 0,062W
R581	4822 051 30102	1k 5% 0,062W
R584	4822 117 12139	22Ω 5% 0,062W
R585	9965 000 18581	110 Ω 1 / 16 W 1608 5.00% D
R586	4822 051 30759	75Ω 5% 0,062W
R587	9965 000 18581	110 Ω 1 / 16 W 1608 5.00% D
R5A7	4822 051 30103	10k 5% 0,062W
R5A9	4822 051 30102	1k 5% 0,062W
R5C1	4822 051 30151	150Ω 5% 0,062W
R5C3	4822 051 30151	150Ω 5% 0,062W
R5C4	4822 051 30151	150Ω 5% 0,062W
R5C5	4822 051 30151	150Ω 5% 0,062W
R5C6	4822 051 30151	150Ω 5% 0,062W
R5C9	4822 051 30008	0Ω jumper
R5E1	4822 051 30008	0Ω jumper
R601	4822 051 30759	75Ω 5% 0,062W
R602	4822 051 30759	75Ω 5% 0,062W
R603	4822 051 30759	75Ω 5% 0,062W
R604	4822 051 30759	75Ω 5% 0,062W
R605	4822 051 30759	75Ω 5% 0,062W
R606	4822 051 30759	75Ω 5% 0,062W
R607	4822 051 30008	0Ω jumper

R608	4822 051 30008	0Ω jumper
R609	4822 051 30008	0Ω jumper
R610	4822 051 30008	0Ω jumper
R611	4822 051 30008	0Ω jumper
X501	9965 000 18582	HC-49/S BUBANG 27MHz 20PPM 1
IC201	9965 000 18567	MT1336E MEDIATEK INCORPORATION
IC202	9965 000 18568	LA6560-A-TE-L SANYO HSOP-36R R
IC401	9965 000 11006	CS4391 TSSOP20
IC402	9965 000 04714	IC NJM4580M
IC501	9965 000 18569	MT1379DE MEDIATEK INCORPORATIO
IC502	9965 000 18570	M12L16161A-7T-TI ELITE MEMORY
IC503	9965 000 18570	M12L16161A-7T-TI ELITE MEMORY
IC505	9965 000 18571	S524A40X21-SCT0 SOP8 TP EEPROM
IC510	9965 000 18554	MM74HCT244SJ 20P SOIC TP 3-STA
IC5C1	9965 000 18573	MM1623XFBE MITSUMI 28PIN SOP R
ZD501	4822 130 83206	BZX79-B5V6

MAIN PWB DVD755VR /14

Various

323	9965 000 18584	VCR - PRE-AMP (02-PAL)
A46	9965 000 19468	VCR 2003 COMBI SCART (DI)
BC91	9965 000 18585	BEAD CORE BFS3550R2FD8,R T/P
BC92	9965 000 18585	BEAD CORE BFS3550R2FD8,R T/P

-II-

C216	4822 051 20008	0R00 JUMP. ()
C301	4822 124 11947	10μF 20% 16V
C302	4822 124 40804	22μF 20% 63V
C303	9965 000 18591	1800pF 50V 10% B(5YP) 2012 R/TP
C304	4822 124 23056	47μF 20% 16V
C305	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C306	9965 000 18592	1200P 50V K B 2.0X1.25 R/ TP
C307	4822 124 23053	1μF 20% 63V
C308	9965 000 18593	0.015μF 50V K B 2.0X1.2 R/ TP
C309	9965 000 18594	220P 50V J 2.0X1.25 R/TP
C310	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C311	9965 000 18595	47μF SR,SV 50V M FL TP 5
C312	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C313	9965 000 18596	0.022μF S 63V K PP NI TP5
C314	4822 124 11947	10μF 20% 16V
C315	9965 000 18590	2.2μF SRA,SS 50V 20% FM5 TP 5
C316	4822 124 11947	10μF 20% 16V
C317	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C318	4822 124 23053	1μF 20% 63V
C319	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C320	4822 124 23053	1μF 20% 63V
C321	4822 126 13694	68pF 1% 63V
C322	4822 124 11947	10μF 20% 16V
C323	4822 124 11947	10μF 20% 16V
C324	4822 124 40769	4.7μF 20% 100V
C325	4822 124 11947	10μF 20% 16V
C326	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C327	4822 124 23053	1μF 20% 63V
C328	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C329	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C330	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
C331	4822 124 40804	22μF 20% 63V
C333	4822 124 23056	47μF 20% 16V
C334	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C335	9965 000 18586	0.01μF 50V 5% B(5YP) 2012 R/TP
C336	4822 124 23056	47μF 20% 16V

C337	4822 124 23053	1µF 20% 63V	C545	9965 000 18610	0.033µF 25V K B 2.0X1.25 R/TP	C7M6	9965 000 18611	27P 50V J COG 2.0X1.2 R/TP
C338	4822 126 13751	47nF 10% 63V	C546	9965 000 18607	47µF SRA,SS 35V M FM5 TP 5	C7S3	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C339	4822 124 23053	1µF 20% 63V	C547	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C802	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C340	4822 126 13751	47nF 10% 63V	C551	9965 000 18610	0.033µF 25V K B 2.0X1.25 R/TP	C803	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C341	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C552	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C804	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C342	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C561	4822 124 12052	220µF 20% 6,3V	C805	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C343	4822 126 13751	47nF 10% 63V	C564	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C806	4822 124 11947	10µF 20% 16V
C345	9965 000 18598	0.056µF 50V 10% B(5YP) 2012 R/TP	C567	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C807	9965 000 18588	0.47M SRA 50V M FM5 TP(5)
C346	4822 124 23056	47µF 20% 16V	C570	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C808	4822 124 23053	1µF 20% 63V
C347	4822 124 23053	1µF 20% 63V	C571	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C809	4822 124 23053	1µF 20% 63V
C348	4822 124 23053	1µF 20% 63V	C575	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C810	9965 000 18606	1µF 16V Z (F) 2012 R/TP
C349	4822 124 23056	47µF 20% 16V	C576	9965 000 18611	27P 50V J COG 2.0X1.2 R/TP	C811	9965 000 18606	1µF 16V Z (F) 2012 R/TP
C350	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C577	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C812	4822 124 11947	10µF 20% 16V
C351	9965 000 18594	220P 50V J 2.0X1.25 R/TP	C578	9965 000 18608	2200P 50V K B 2.0X1.25 R/TP	C813	9965 000 18622	6800pF 50V 10% B(5YP) 2012 R/T
C353	4822 124 23053	1µF 20% 63V	C581	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C814	4822 124 23056	47µF 20% 16V
C355	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C582	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C815	4822 124 11947	10µF 20% 16V
C356	4822 124 23053	1µF 20% 63V	C583	9965 000 18606	1µF 16V Z (F) 2012 R/TP	C816	4822 124 11947	10µF 20% 16V
C357	4822 124 23053	1µF 20% 63V	C596	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C817	4822 124 11947	10µF 20% 16V
C358	4822 126 13694	68pF 1% 63V	C5A3	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C818	4822 124 23056	47µF 20% 16V
C359	4822 124 23053	1µF 20% 63V	C5A4	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C819	9965 000 18622	6800pF 50V 10% B(5YP) 2012 R/T
C361	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C5A5	4822 124 23053	1µF 20% 63V	C820	4822 124 11947	10µF 20% 16V
C362	4822 124 23056	47µF 20% 16V	C5K1	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C821	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C363	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C5L1	9965 000 18606	1µF 16V Z (F) 2012 R/TP	C822	4822 124 23056	47µF 20% 16V
C366	9965 000 18586	0.01µF 50V 5% B(5YP) 2012 R/TP	C5L6	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C823	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C367	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C5P1	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C824	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C368	9965 000 18599	8200P 50V K B 2.0X1.2 R/TP	C5P2	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C825	4822 124 23056	47µF 20% 16V
C369	4822 126 13221	100pF 2% 63V	C5S1	9965 000 18612	43pF 50V J 2012 R/TP	C826	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP
C370	4822 126 13695	82pF 1% 63V	C5S3	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C828	4822 124 23053	1µF 20% 63V
C371	4822 126 13695	82pF 1% 63V	C706	9965 000 18613	33P 50V J C 2.0X1.2 R/TP	C829	4822 124 23053	1µF 20% 63V
C372	4822 126 13695	82pF 1% 63V	C707	4822 126 13694	68pF 1% 63V	C834	9965 000 18623	470µF SRA,SS 16V 20% FM5 TP 5
C374	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C708	9965 000 18600	470µF SR,SV 6.3V 20% FM5 TP 5	C855	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C375	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C709	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C856	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C376	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C710	4822 124 40769	4,7µF 20% 100V	C857	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C377	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C712	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C859	4822 124 40804	22µF 20% 63V
C500	9965 000 18600	470µF SR,SV 6.3V 20% FM5 TP 5	C713	9965 000 18614	56P 50V J 2.0X1.25 R/TP	C860	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C501	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C714	9965 000 18614	56P 50V J 2.0X1.25 R/TP	C861	4822 124 11947	10µF 20% 16V
C502	4822 124 23056	47µF 20% 16V	C715	9965 000 18615	5P 50V C COG 2.0X1.2 R/TP	C863	4822 124 23056	47µF 20% 16V
C503	4822 124 12052	220µF 20% 6,3V	C716	2238 861 18109	50V 10P PM1 R	C864	4822 124 23053	1µF 20% 63V
C504	4822 124 12052	220µF 20% 6,3V	C717	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C869	4822 124 11947	10µF 20% 16V
C505	4822 124 23056	47µF 20% 16V	C718	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C870	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C506	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C719	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C871	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C508	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C720	9965 000 18617	1500pF 50V 10% B(5YP) 2012 R/T	C884	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C509	9965 000 18601	22P 50V J 2.0X1.2 R/TP	C721	9965 000 18618	3900P 50V K 2.0X1.2 R/TP	C885	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C511	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C722	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C886	9965 000 18623	470µF SRA,SS 16V 20% FM5 TP 5
C512	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C723	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C889	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C513	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C726	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C890	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C514	9965 000 18603	12pF 50V 5% 2012 R/TP	C727	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C891	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C515	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C728	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C892	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)
C516	9965 000 18597	0.022µF 50V K B 2.0X1.2 R/TP	C729	9965 000 18619	3.3µF SRA,SS 50V 20% FM5 TP 5	C908	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C518	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C730	9965 000 18604	15P 50V J COG 2.0X1.2 R/TP	C910	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C519	9965 000 18587	0.1µF 2012 50V 80%,-20% (F)	C731	9965 000 18620	9pF 50V 0.5 pF 2012 R/TP	C912	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C520	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C732	4822 124 11947	10µF 20% 16V	C912	9965 000 18624	1000P 50V K B TA26
C521	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP	C751	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C915	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C523	9965 000 18590	2.2µF SRA,SS 50V 20% FM5 TP 5	C752	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C916	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C524	4822 124 23056	47µF 20% 16V	C755	4822 124 11947	10µF 20% 16V	C921	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP
C525	9965 000 18606	1µF 16V Z (F) 2012 R/TP	C7M1	9965 000 18605	0.01µF 50V K B 2.0X1.25 R/TP	C931	9965 000 18600	470µF SR,SV 6.3V 20% FM5 TP 5
C526	9965 000 18607	47µF SRA,SS 35V M FM5 TP 5	C7M2	9965 000 18616	47M SRA 6.3V M FM5 TP(5)	C932	9965 000 18600	470µF SR,SV 6.3V 20% FM5 TP 5
C527	9965 000 18594	220P 50V J 2.0X1.25 R/TP				C933	9965 000 18600	470µF SR,SV 6.3V 20% FM5 TP 5
C533	9965 000 18602	1000P 50V K B 2.0X1.25 R/TP						
C534	4822 124 40769	4,7µF 20% 100V						
C535	9965 000 18606	1µF 16V Z (F) 2012 R/TP						
C543	9965 000 18608	2200P 50V K B 2.0X1.25 R/TP						
C544	9965 000 18609	0.047µF 50V Z (F) 2012 R/TP						

C938	9965 000 18587	0.1μF 2012 50V 80%,-20% (F)
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D301	4822 130 32778	1SS133
D502	4822 130 32778	1SS133
D509	4822 130 32778	1SS133
D801	4822 130 32778	1SS133
D802	4822 130 32778	1SS133
D901	4822 130 32778	1SS133
D902	4822 130 32778	1SS133
F8A1	9965 000 18627	CFI06B1H101MF SAMHWA TP 2-5K



L301	9965 000 18640	10μH 5% TP 3X5 TR5
L302	9965 000 18641	100M K 6X6 L5 TP
L303	9965 000 18640	10μH 5% TP 3X5 TR5
L304	9965 000 18640	10μH 5% TP 3X5 TR5
L305	9965 000 18641	100M K 6X6 L5 TP
L307	9965 000 18640	10μH 5% TP 3X5 TR5
L501	9965 000 18642	12M K 2.3X3.4 L5 TP
L503	9965 000 18643	100μH 5% TP 3X5 TR5
L504	9965 000 18640	10μH 5% TP 3X5 TR5
L505	9965 000 18641	100M K 6X6 L5 TP
L506	9965 000 18644	EL0405RA SKI150G-3 K-15μH

L5S1	9965 000 18645	33M K 2.3X3.4 L5 TP
L701	9965 000 18641	100M K 6X6 L5 TP
L702	9965 000 18646	10M K 6X6 L5 TP
L704	9965 000 18646	10M K 6X6 L5 TP
L705	9965 000 18646	10M K 6X6 L5 TP
L706	9965 000 18647	8.2M K 2.3X3.4 L5 TP
L7M1	9965 000 18641	100M K 6X6 L5 TP
L801	9965 000 18641	100M K 6X6 L5 TP
L803	9965 000 18641	100M K 6X6 L5 TP
L804	9965 000 18641	100M K 6X6 L5 TP
L805	9965 000 18641	100M K 6X6 L5 TP
L901	9965 000 18648	100M K 2.3X3.4 L5 TP
L902	9965 000 18648	100M K 2.3X3.4 L5 TP
L903	9965 000 18648	100M K 2.3X3.4 L5 TP
L904	9965 000 18648	100M K 2.3X3.4 L5 TP
L905	9965 000 18648	100M K 2.3X3.4 L5 TP
L906	9965 000 18648	100M K 2.3X3.4 L5 TP
L907	9965 000 18648	100M K 2.3X3.4 L5 TP
L908	9965 000 18648	100M K 2.3X3.4 L5 TP
L909	9965 000 18648	100M K 2.3X3.4 L5 TP
L910	9965 000 18648	100M K 2.3X3.4 L5 TP
L912	9965 000 19456	10μH , CHIP2012 CERATECH R/TP



Q173	4822 130 10491	KTC3875S-GR-T1(ALG)
Q301	4822 130 10491	KTC3875S-GR-T1(ALG)
Q302	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q303	4822 130 10491	KTC3875S-GR-T1(ALG)
Q304	4822 130 10491	KTC3875S-GR-T1(ALG)
Q305	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q306	9965 000 18651	2SC5344Y TP
Q308	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q309	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q501	4822 130 10491	KTC3875S-GR-T1(ALG)
Q502	4822 130 10491	KTC3875S-GR-T1(ALG)
Q503	4822 130 63766	KTA1273Y(966Y)
Q504	4822 130 10491	KTC3875S-GR-T1(ALG)
Q514	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q515	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q5S1	4822 130 10491	KTC3875S-GR-T1(ALG)
Q705	4822 130 63766	KTA1273Y(966Y)
Q706	9965 000 16624	CHIP TRANSISTOR KRC103S RTK
Q801	4822 130 10491	KTC3875S-GR-T1(ALG)
Q802	4822 130 10491	KTC3875S-GR-T1(ALG)
Q804	9965 000 16622	CHIP TRANSISTOR KTA1504GR-RTK
Q901	4822 130 10491	KTC3875S-GR-T1(ALG)
Q902	4822 130 10491	KTC3875S-GR-T1(ALG)
Q903	4822 130 10491	KTC3875S-GR-T1(ALG)



R173	4822 051 20472	4k7 5% 0,1W
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R301	4822 117 11148	56k 1% 0,1W
R302	4822 117 10833	10k 1% 0,1W
R303	4822 117 10965	18k 1% 0,1W
R304	4822 117 10833	10k 1% 0,1W
R305	4822 117 10833	10k 1% 0,1W
R306	4822 051 20223	22k 5% 0,1W
R307	4822 117 11449	2k2 5% 0,1W 0805
R308	4822 051 20472	4k7 5% 0,1W
R309	4822 051 20102	1k 5% 0,1W
R310	4822 051 20472	4k7 5% 0,1W
R311	4822 051 20102	1k 5% 0,1W
R312	4822 051 20683	68k 5% 0,1W
R313	4822 051 20228	2Ω2 5% 0,1W
R314	4822 051 20102	1k 5% 0,1W
R315	4822 051 20479	47Ω 5% 0,1W
R316	4822 117 11373	100Ω 1% RC12H 0805
R317	4822 051 20562	5k6 5% 0,1W 0805
R318	4822 051 20392	3k9 5% 0,1W
R319	4822 051 20561	560Ω 5% 0,1W
R320	4822 117 10353	150Ω 1% 0,1W
R321	4822 051 20122	1k2 5% 0,1W
R322	4822 051 20102	1k 5% 0,1W
R324	4822 051 20334	330k 5% 0,1W
R325	4822 051 20471	470Ω 5% 0,1W
R326	4822 117 11383	12k 1% 0,1W
R327	4822 051 20562	5k6 5% 0,1W 0805
R328	4822 117 11504	270Ω 1% 0.1W
R329	4822 117 11383	12k 1% 0,1W
R330	4822 117 10833	10k 1% 0,1W
R331	4822 051 20472	4k7 5% 0,1W
R332	4822 117 10834	47k 1% 0,1W
R333	4822 051 20392	3k9 5% 0,1W
R334	4822 117 12955	2k7 1% 0,1W 0805
R335	4822 117 11507	6k8 1% 0,1W
R336	4822 117 10837	100k 1% 0.1W
R337	4822 117 11449	2k2 5% 0,1W 0805
R338	4822 117 11504	270Ω 1% 0.1W
R339	4822 117 11504	270Ω 1% 0.1W
R340	4822 117 10965	18k 1% 0,1W
R342	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R343	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R344	4822 051 20471	470Ω 5% 0,1W
R345	4822 051 20471	470Ω 5% 0,1W
R346	4822 117 11373	100Ω 1% RC12H 0805
R347	4822 117 11373	100Ω 1% RC12H 0805
R348	4822 051 20155	1M5 5% 0,1W
R349	4822 051 20182	1k8 5% 0,1W
R350	4822 117 10833	10k 1% 0,1W
R351	4822 051 20824	820k 5% 0,1W
R352	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R353	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R3A2	4822 051 20008	0Ω jumper . (0805)
R501	4822 117 11373	100Ω 1% RC12H 0805
R502	4822 117 11373	100Ω 1% RC12H 0805
R503	4822 051 20472	4k7 5% 0,1W
R504	4822 051 20102	1k 5% 0,1W
R505	4822 051 20102	1k 5% 0,1W
R506	4822 051 20008	0Ω jumper . (0805)
R508	4822 051 20332	3k3 5% 0,1W
R509	4822 051 20182	1k8 5% 0,1W
R510	4822 117 11449	2k2 5% 0,1W 0805
R511	4822 051 20102	1k 5% 0,1W
R512	4822 051 20102	1k 5% 0,1W
R513	4822 051 20102	1k 5% 0,1W
R514	4822 051 20124	120k 5% 0,1W
R515	4822 117 11504	270Ω 1% 0.1W
R516	4822 051 20474	470k 5% 0,1W
R517	4822 051 20471	470Ω 5% 0,1W
R518	4822 051 20102	1k 5% 0,1W
R520	4822 051 20392	3k9 5% 0,1W
R521	4822 051 20472	4k7 5% 0,1W
R522	4822 051 20102	1k 5% 0,1W
R523	4822 117 10833	10k 1% 0,1W
R524	4822 051 20229	22Ω 5% 0,1W
R525	4822 051 20562	5k6 5% 0,1W 0805
R526	4822 051 20562	5k6 5% 0,1W 0805
R527	4822 051 20102	1k 5% 0,1W
R528	4822 051 20472	4k7 5% 0,1W
R529	4822 117 10833	10k 1% 0,1W
R530	4822 051 20472	4k7 5% 0,1W
R531	4822 117 10833	10k 1% 0,1W
R535	4822 051 20474	470k 5% 0,1W
R542	4822 117 11449	2k2 5% 0,1W 0805
R543	4822 117 11373	100Ω 1% RC12H 0805
R544	4822 051 20472	4k7 5% 0,1W
R545	4822 051 20008	0Ω jumper . (0805)
R546	4822 051 20562	5k6 5% 0,1W 0805
R547	4822 117 11383	12k 1% 0,1W
R548	4822 117 10837	100k 1% 0.1W
R550	4822 117 11503	220Ω 1% 0.1W

R553	4822 117 11503	220Ω 1% 0.1W
R554	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R555	4822 117 11503	220Ω 1% 0.1W
R556	4822 051 20223	22k 5% 0,1W
R557	4822 051 20273	27k 5% 0,1W
R558	4822 051 20223	22k 5% 0,1W
R559	4822 051 20472	4k7 5% 0,1W
R560	4822 051 20472	4k7 5% 0,1W
R561	4822 051 20561	560Ω 5% 0,1W
R562	4822 051 20561	560Ω 5% 0,1W
R563	4822 051 20562	5k6 5% 0,1W 0805
R564	4822 051 20273	27k 5% 0,1W
R566	4822 051 20472	4k7 5% 0,1W
R567	4822 117 10833	10k 1% 0,1W
R568	4822 051 20683	68k 5% 0,1W
R569	4822 051 20105	1M 5% 0,1W
R570	4822 051 20472	4k7 5% 0,1W
R575	4822 051 20472	4k7 5% 0,1W
R576	4822 051 20472	4k7 5% 0,1W
R577	4822 051 20472	4k7 5% 0,1W
R578	4822 051 20472	4k7 5% 0,1W
R579	4822 117 11148	56k 1% 0,1W
R582	4822 117 11373	100Ω 1% RC12H 0805
R583	4822 117 10833	10k 1% 0,1W
R589	4822 051 20105	1M 5% 0,1W
R591	4822 117 10837	100k 1% 0.1W
R5A2	4822 117 10833	10k 1% 0,1W
R5A3	4822 117 10833	10k 1% 0,1W
R5A5	4822 051 20474	470k 5% 0,1W
R5B3	4822 051 20102	1k 5% 0,1W
R5B4	4822 051 20102	1k 5% 0,1W
R5B5	4822 117 11373	100Ω 1% RC12H 0805
R5C1	4822 051 20102	1k 5% 0,1W
R5C5	4822 051 20102	1k 5% 0,1W
R5C6	4822 051 20102	1k 5% 0,1W
R5C7	4822 051 20102	1k 5% 0,1W
R5C9	4822 117 10833	10k 1% 0,1W
R5K6	4822 117 11373	100Ω 1% RC12H 0805
R5K7	4822 117 11373	100Ω 1% RC12H 0805
R5K8	4822 117 11373	100Ω 1% RC12H 0805
R5L1	4822 051 20008	0Ω jumper . (0805)
R5P2	4822 117 10833	10k 1% 0,1W
R5P3	4822 117 10833	10k 1% 0,1W
R5R8	4822 051 20102	1k 5% 0,1W
R5S1	4822 051 20562	5k6 5% 0,1W 0805
R5S2	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R5S2	9965 000 18652	330 Ω 1/6 W 5% TA26
R705	4822 117 11503	220Ω 1% 0.1W
R706	4822 117 11503	220Ω 1% 0.1W
R707	4822 051 20102	1k 5% 0,1W
R710	4822 051 20332	3k3 5% 0,1W
R711	4822 051 20332	3k3 5% 0,1W
R712	4822 051 20472	4k7 5% 0,1W
R713	4822 051 20562	5k6 5% 0,1W 0805
R714	4822 051 20008	0Ω jumper . (0805)
R715	4822 117 11449	2k2 5% 0,1W 0805
R716	4822 051 20102	1k 5% 0,1W
R717	4822 117 11373	100Ω 1% RC12H 0805
R718	4822 117 11373	100Ω 1% RC12H 0805
R719	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R7M1	4822 051 20102	1k 5% 0,1W
R7M2	4822 117 11503	220Ω 1% 0.1W
R7M4	4822 051 20102	1k 5% 0,1W
R7M5	4822 117 11503	220Ω 1% 0.1W
R801	4822 051 20335	3M3 5% 0,1W
R802	4822 051 20333	33k 5% 0,1W
R803	4822 117 12955	2k7 1% 0,1W 0805
R804	4822 051 20393	39k 5% 0,1W
R805	4822 117 12955	2k7 1% 0,1W 0805
R806	4822 051 20333	33k 5% 0,1W
R807	4822 051 20471	470Ω 5% 0,1W
R808	4822 117 10833	10k 1% 0,1W
R809	4822 117 10965	18k 1% 0,1W
R810	4822 117 11373	100Ω 1% RC12H 0805
R811	4822 117 11373	100Ω 1% RC12H 0805
R812	4822 051 20102	1k 5% 0,1W
R821	4822 117 11449	2k2 5% 0,1W 0805
R822	4822 117 10837	100k 1% 0.1W
R823	4822 117 11449	2k2 5% 0,1W 0805
R824	4822 117 10837	100k 1% 0.1W
R825	4822 051 20561	560Ω 5% 0,1W
R826	4822 051 20561	560Ω 5% 0,1W
R835	4822 117 11927	75Ω 1% 0,1W
R841	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R842	4822 117 13577	330Ω 1% RC12H 0805 1,25W
R850	4822 117 11373	100Ω 1% RC12H 0805
R851	4822 117 11373	100Ω 1% RC12H 0805
R861	4822 051 20472	4k7 5% 0,1W
R862	4822 051 20472	4k7 5% 0,1W

R863	4822 051 20472	4k7 5% 0,1W
R864	4822 051 20472	4k7 5% 0,1W
R874	4822 117 11927	75Ω 1% 0,1W
R875	4822 051 20472	4k7 5% 0,1W
R876	4822 051 20472	4k7 5% 0,1W
R890	4822 051 20561	560Ω 5% 0,1W
R902	4822 117 10833	10k 1% 0,1W
R903	4822 117 11927	75Ω 1% 0,1W
R904	4822 051 20561	560Ω 5% 0,1W
R905	4822 051 20561	560Ω 5% 0,1W
R906	4822 051 20561	560Ω 5% 0,1W
R907	4822 051 20561	560Ω 5% 0,1W
R908	4822 051 20008	0Ω jumper . (0805)
R909	4822 051 20008	0Ω jumper . (0805)
R910	4822 051 20008	0Ω jumper . (0805)
R911	4822 051 20102	1k 5% 0,1W
R913	4822 117 11927	75Ω 1% 0,1W
R914	4822 117 11927	75Ω 1% 0,1W
R919	4822 051 20472	4k7 5% 0,1W
R920	4822 117 10361	680Ω 1% 0,1W
R927	4822 051 20102	1k 5% 0,1W
R928	4822 051 20008	0Ω jumper . (0805)
R929	4822 051 20008	0Ω jumper . (0805)
R930	4822 051 20102	1k 5% 0,1W
R931	4822 117 11503	220Ω 1% 0.1W
R932	4822 117 11503	220Ω 1% 0.1W
R933	4822 117 10837	100k 1% 0.1W
R934	4822 117 10837	100k 1% 0.1W
W714	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W901	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W902	9965 000 18656	1.0M K 2.3X3.4 L5 TP
W903	9965 000 18656	1.0M K 2.3X3.4 L5 TP
X301	9965 000 18657	HC49U BUBANG 4- 433709MHz 15P
X501	9965 000 18658	HC-49S BUBANG 10MHz +/- 30 PPM
X502	9965 000 18659	C-001R SEIKO EPSON 32.768 KHZ
X751	9965 000 18660	49U BUBANG 18432000HZ 30PPM 16

-II-

CS501	9965 000 18625	MPU11810MLB0 MIC DC 5V 1MA D-3
ES501	9965 000 18626	END (DI)
ES502	9965 000 18626	END (DI)
FL301	9965 000 18628	BIAC OSC,1CHIP 5V(KS- 75M) KWAN
IC301	9965 000 18630	LA71750EM SANYO 100PIN QFP TRA
IC501	9965 000 18631	HD6432197SA26F HITACHI 112PIN
IC503	9965 000 18632	CAT24W16P 8P DIP ST 16K SERIAL
IC504	9965 000 18633	KIA7031P 3P 3.1V RESET(TAPING)
IC505	9965 000 18634	KIA7042P
IC751	9965 000 14760	AUD UP MSP3417G-QG-B8- V3
IC801	9352 631 46557	IC SM TDA9605H/N2
IC802	9965 000 18635	MM1443XJ SSOP-34 TP CANAL S/W



LD501	9965 000 18649	LED(DI-CKD)LOCAL
MS501	9965 000 18650	NON 5V 1MA VERTICAL -G



RS501	9965 000 18653	SG-260 KODENSHI D33 REEL SENSO
RS502	9965 000 18653	SG-260 KODENSHI D33 REEL SENSO
SC901	9965 000 19459	DSAM-0139 DOOWON 2F- 21P(BK-BK)



TU701	9965 000 19446	TADC-M401D(GKI,LGIT) LG INOTEK
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